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CONTROLLED ATMOSPHERE DELIVERY DECISION SUPPORT SYSTEM

by

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September 1995

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The user of the system has control over the input parameters which are maintained in spreadsheet form and read into the appropriate optimization program. These parameters include: commodity and transportation costs, demand locations and amounts, supply countries, supply amounts, van constraints, van load possibilities (binary), and shipping possibilities (binary). Based on which model is run, possible outputs include: amount to ship from source to demand, backorders needed, shipment routes needed, number of each van type needed, total vans needed, direct costs, total costs, projected number of vans needed in advance, and candidates for possible gassing sites (locations where produce would be loaded into controlled atmospheric vans).

The following possible gassing sites were identified: Canada, Guatemala, Mexico, Dominican Republic, and the Bahamas. Further investigation is warranted for these countries.

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CONTROLLED ATMOSPHERE DELIVERY DECISION SUPPORT SYSTEM

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ABSTRACT

This thesis describes a decision support system that aids in decisions involving the shipment of perishable items. It is currently possible to arrest the aging process of produce by controlling the atmospheric conditions under which they are packaged. This thesis utilizes three mixed integer optimization programs written in General Algebraic Modeling System (GAMS) to determine possible sites for placement of the controlled atmosphere stations, to minimize total costs involved, and to optimally load produce demands in compatible atmospheric vans and, hence, minimize the number of vans required to meet demands.

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THESIS DISCLAIMER

The reader is cautioned that computer programs developed in this research may not have been exercised for all cases of interest. While every effort has been made, within the time available, to ensure that the programs are free of computational and logic errors, they cannot be considered validated. Any application of these programs without additional verification is at the risk of the user.

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EXECUTIVE SUMMARY

The Defense Personnel Support Center - Pacific and the Defense Subsistence Office - Alameda are responsible for ensuring that Department of Defence personnel in the Pacific region receive deliveries of fresh fruits and vegetables. Currently, produce shipped to the Pacific region is bought off of the terminal markets in the United States and forwarded to the end user. It is not unusual to find produce on the terminal markets that has been imported to the United States from various foreign countries. When this produce is bought, not only has the produce aged from the time it was harvested and shipped over to the United States and put on the terminal market, but it still needs to withstand shipment from the United States to customers in the Pacific. This delay from the time of harvest to the time the produce reaches the end user can often cause the produce to arrive in less than desirable conditions.

In 1992, the Defense Personnel Support Center - Pacific, working in conjuction with commercial shipping companies, gassing companies, and post-harvest biotechnicians, was able to integrate the latest technological advances into a brand new shipping concept. They have called this shipping concept the Controlled Atmosphere Reliable Transportation System, or CARTS. By controlling the atmospheric conditions in which the produce is shipped, the aging process of the produce can be virtually arrested from the time it is packed into vans until the time it is unpacked.

While the new technology exists, sealifted produce is still being acquired in the same manner. Recognizing the ineffective use of this new technology, Defense Personnel Support Center - Pacific has initiated a Global Sourcing Study. The purpose of this study is to identify the original growing regions worldwide for the produce types currently being shipped to the Pacific region. Analysis could then be done to determine if it would be more efficient to ship produce directly from its point of origin to the final destination.

This thesis is a decision support system designed to aid in the begining of this analysis. Data pertaining to product demand, availability, costs, and van loading possibilities, as well as data pertaining to transportation costs and available routes are

input into a spreadsheet by the user. This data can then be read into one of three possible mixed integer optimization programs to determine outputs such as minimized total cost, minimized number of van types needed, minimized total vans needed, van loading possiblilities to minimize costs and potential countries for placement of CARTS gassing sites.

By using historical data of produce demands for Pacific region customers and historical supply data gathered from the United States Census Bureau, trial runs were made with each optimization program. Results indicated that five countries, Canada, Guatemala, Mexico, Dominican Republic, and the Bahamas, could provide approximately eight-five percent of Pacific region demands. These countries warrant further investigations into shipping feasibility, data verification and a final cost / benefit analysis.

I. INTRODUCTION

There are currently an estimated 160,000 military personnel and 104,000 dependents and federal employees stationed in the Pacific region (current figures used at Defense Personnel Support Center - Pacific). One of their many needs includes the availability of fresh and marketable produce, including fresh fruits and vegetables. The more distant the customer is from the source of supply, the more likely it is that the fresh produce will not be available in marketable condition. This implies that the military must become involved in the exportation of various types of perishable goods. In fact, the mission of the Defense Personnel Support Center (DPSC) in Richmond, Virginia, an organization under the control of the Defense Logistics Agency, includes,

> Guarantee the combat readiness of America's fighting forces by providing our soldiers, airmen, marines, their families, and other non-Department of Defense customers worldwide, with the highest quality of food, clothing and equipment and medical supplies and equipment. The Defense Personnel Support Center vision is to be the worldwide provider of federal logistical services.... (DPSC mission statement, 1995)

In addition to supporting routine deployments and global conflicts, the Defense Personnel Support Center also supports humanitarian efforts for evolutions such as hurricane Andrew in south Florida and peacekeeping missions such as Bosnia, Somalia and Haiti. As these military activities are established, the demand for year-round, routine shipments of fresh fruits and vegetables increases as the duration of the activities increase. Meeting these demands requires that a dependable, routine schedule of exported produce be delivered to the customer or end user. For the Pacific region, the responsibilities of meeting these demands falls into the hands of the Defense Personnel Support Center - Pacific (DPSC-P) and the Defense Subsistence Office - Alameda (DSO-A). The challenge of maintaining the supply of perishable fresh fruits and vegetables is to maintain produce freshness throughout the logistics chain which can be quite lengthy during the exportation process. Therefore, one of the goals of the Defense Personnel Support Center - Pacific and the Defense Subsistence Office - Alameda is to minimize produce deterioration while

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meeting customer demand with the highest quality of produce possible at the least possible cost.

United States' militarily owned shipments of perishable produce to the Pacific region is currently being bought on the terminal markets on the West Coast, where its date of harvest is unknown. When additional produce quantities above available U.S. supply is demanded, or when the produce is not in season in the United States, it is supplemented by imported produce originating from various countries. This produce is harvested and packaged in the originating country, transported to the United States and placed on the terminal market where military buying takes place. The harvest date and remaining shelf life of this produce is equally, if not more, questionable than the produce grown in the United States. Since the transit across the Pacific Ocean is still required, the produce arriving overseas is often less than satisfactory and may not be marketable. While airlift is available, and has been used in the past, it is excessively costly (in excess of one dollar per pound) and its cost must be passed on to the customer. Due to this excessive cost, the Defense Commissary Agency (DeCA), the primary customer for DPSC produce shipments, decided in 1991 that it was no longer financially feasible to continue shipping produce to overseas locations via airlift. An additional drawback to airlift is its hardship on perishable produce. For every hour an airlifted container of produce is not maintained at its optimal temperature, one day of shelf life is lost. Produce, sitting in an aircraft located on the flight line, is not being maintained at its optimal temperature. If not airlifted, the only other means of exporting perishable fresh fruits and vegetables is via sealift. This introduces the problem of shelf life. Every type of produce has its own post-harvest sustainablility. In order for the produce to reach military personnel in acceptable condition, it must be able to survive a fairly lengthy sea voyage and still have enough shelf life remaining to be marketable once it reaches the port of debarkation.

In an attempt to rectify the problem of shipping perishable produce overseas, in 1991, the Defense Personnel Support Center - Pacific began doing research with representatives of the commercial container ship industry, leading post harvest biotechnicians from the University of California, Davis, and a gassing company called

TransFresh, located in Salinas, California. This partnership resulted in the advancement of a new technology which can be applied to shipping perishable goods via sealift. This technology has become known as the Controlled Atmosphere Reliable Transportation System, or CARTS, for short. (CARTS is discussed further in Chapter II). By shipping produce in seavans under a controlled atmosphere, where the levels of oxygen, nitrogen, carbon dioxide and temperature can all be varied, it is possible to slow down the respiration rate of produce. By slowing down the respiration rate of produce, deterioration, mold growth and natural decay is also slowed down. In simple terms, the produce is "put to sleep." By utilizing this new technology, shelf life expenditure of produce is virtually arrested from the time it enters the vans until it is opened at the point of destination. Experimental shipments of produce to Guam utilizing the Controlled Atmosphere Reliable Transportation System began in December of 1992 and were highly successful. Since that time, the program has been expanded and presently, CARTS is being used to ship produce to Guam, Korea and Okinawa via sealift. Further expansion is anticipated and experimental runs have been made to Europe. In the Pacific, Japan is the next planned customer to benefit from the Controlled Atmosphere Reliable Transportation System.

What CARTS is **is** a technological advancement for the shipping of perishable goods. What CARTS is **not** is a planning, scheduling or optimizing system. The personnel at the Defense Personnel Support Center realize this and have tasked DPSC-P to better utilize the CARTS technology by creating a Global Source Initiative. While CARTS is useful and has proven to be successful at extending produce quality from the time it leaves the west coast of the United States until it reaches its overseas destination, CARTS is not currently being used to increase produce quality from the growing field or region to the final destination. It is known that produce is often imported to the United States from various global growing regions such as Mexico, Chile, South America, etc. It is then bought on the terminal market and exported via CARTS to Guam, Korea and Okinawa. DPSC-P has been tasked to conduct studies to identify areas where demanded produce is grown, can be purchased by the United States government and can be

distributed directly to the customer. Quality of produce, growing seasonality factors, available quantity, market price, distribution costs, demand rates, insect infestation considerations, customs requirements, delivery frequency capabilities and other such factors are to be analyzed. These studies are to fall under the heading of Global and/or Multi Sourcing.

Near the end of calendar year 1993, the Defense Personnel Support Center submitted the following, as of yet unanswered, Global Sourcing Statement for Broad Agency Announcement,

> The Defense Personnel Support Center (DPSC) is entertaining proposals from interested parties to explore, identify, and evaluate produce growing areas in the western hemisphere. DPSC's customers in the Pacific Rim area are mostly U.S. military, and consist of commissaries and mess feeding facilities. These activities receive the majority of their fresh produce from the west coast of the United States via a combination of surface transportation and air transportation. They supplement this via local purchase in their local markets (Guam, Hawaii, Japan, Johnston Island, Korea and Okinawa). DPSC is interested in determining the availability, quality, relative cost, and seasonality of produce items in the Western hemisphere, as well as the availability and the cost of distributing that produce directly to the areas identified above. The ability to distribute the fresh produce satisfactorily, resulting in marketable and edible product at destination, is related directly to modern post-harvest technology practices, expedited custom clearance practices, insect dis-infestation capabilities, and frequent (at least weekly) deliveries. Those produce growing areas which are found to meet DPSC's requirement will be compared to existing programs to determine potential cost savings and quality differences at destination. (DPSC Broad Agency Announcement dated Nov. 1993)

The basic concept of global sourcing is quite simple. Instead of viewing the military produce markets as a single point located within the region of the United States (such as the terminal market in Oakland), DPSC would broaden their view to the entire world. If peaches are not in season in the United States in December, but they are available in Chile, then the military should buy and ship directly from Chile to the Pacific customer demanding peaches in December. Present procedures allow for the peaches grown and packaged in Chile to be imported to the United States to be bought through military channels on the terminal market. This works well when the produce is for use by the military customer located within the geographical region of the terminal market and

the processing Defense Subsistence Office. However, this procedure does not work well when the produce has to be exported overseas to the military customer.

While the initial concept is quite simple, the supporting analysis involved behind the project is quite extensive. There are many factors that must be researched, stored, analyzed and used in order to make a worldwide produce market concept viable. First, it must be determined which countries grow what type of produce. It must then be determined if the logistical network from field to port exists or could be made to exist in such a fashion that direct shipments could be made to the customers. Shipping routes and schedules also need to be taken into account to determine if the military would even have access to the necessary ports. Additionally, due to various customs and quarantine constraints, it is necessary to determine if the originating produce is allowed in to the destination. Transportation regulations are complex and negotiations would need to be put in place to determine at exactly what point in the logistics chain does the produce become property of the United States.

While a database comprised of this information would be necessary, interesting and intriguing, it would not answer any practical shipping questions. It is this author's opinion that a database containing the above information will not be sufficient to achieve DPSC's Global Sourcing Initiative needs. The database must be integrated with an optimization tool. An analysis tool must be available to use the information stored in the database. Therefore, the primary focus of this thesis will be to create a user-friendly, modifiable database and optimization tool to establish a logistical support analysis system that handles data pertaining to the analysis categories listed above (quality of produce, growing seasonality factors, available quantity, market price, distribution costs, demand rates, insect infestation considerations, customs requirements, delivery frequency capabilities and other such factors). As data is obtained, inputted and modified, the logistical support analysis system should be able to optimize van loading, shipping and scheduling based on the inputted data. The secondary focus of this thesis will be the collection and analysis of as much raw data as possible. A completed database is impractical since the produce and shipping industries are stochastic in nature with changes in marketing and shipping data

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occurring as frequently as daily or even hourly. Therefore, the emphasis should be on designing a system that is flexible enough to handle new data as it is obtained while continuing to provide an optimal loading and shipping schedule that minimizes cost while maximizing quality. The optimization models should be able to process the information described above along with transportation and product costs to suggest viable transportation routes on a yearly basis and to minimize overall costs while meeting customer demand. It is this design concept that the remainder of this paper will concentrate on.

II. CONTROLLED ATMOSPHERE RELIABLE TRANSPORTATION SYSTEM (CARTS)

The Controlled Atmosphere Reliable Transportation System (CARTS) is currently being used effectively to ship produce to Guam, Korea and Okinawa. This chapter will discuss the inception of the program, the successes it has experienced thus far, and the further research being done in this topic area.

Before one can understand the concepts of the Controlled Atmosphere Reliable Transportation System, one must have an appreciation for produce as organisms. Fresh produce are living and breathing organisms. Once produce has been removed from its source of food, known as harvesting, its respiration and aging process accelerates. It is this aging process that results in the natural decay, mold growth and deterioration which we have all probably experienced with fresh fruits and vegetables. Just as each species of produce has its own genetic makeup, each species has its own expected post-harvest shelf life. This shelf life is dependent upon many factors. The amount of handling, temperature, storage procedures, amount of humidity, etc. can either speed up or retard the natural aging process. The amount of variability involved in harvested goods has led to the field of study known as post-harvest biotechnology. The CARTS program is a brainchild emerging from this type of study.

The four primary factors involved with post-harvested produce respiration include: temperature, atmospheric composition, humidity, and handling procedures. CARTS currently incorporates temperature and atmospheric composition in its program and adding humidity management to the controlled atmosphere system is now under investigation. The Defense Personnel Support Center's Global Source Initiative will address handling procedures.

Theoretically, the objectives of CARTS are to optimize the quality of produce upon delivery, maximize the timeliness and predictability of shipments, and to minimize transportation costs. In practice, CARTS applies the appropriate temperature and atmospheric composition to the appropriate produce to arrest the respiration process. In simplistic terms, the produce is "put to sleep" and shelf-life expenditure is virtually

stopped from the time the produce is placed in the sea vans until the vans are opened at the point of destination. Compatible produce species are loaded into a specialized forty foot storage van. Once the produce is loaded, these specialized vans are gassed with the appropriate atmospheric composition. A nitrogen flush is added to the van and the atmospheric composition is approximately four percent oxygen, eight percent carbon dioxide, and eighty-eight percent nitrogen (normal atmosphere consists of twenty-one percent oxygen, seventy-eight percent nitrogen and one percent carbon dioxide). Slight variations on this atmosphere and the temperature of the van are made depending on the type of produce stored in the van. The Defense Personnel Support Center - Pacific is currently using the gassing company known as TransFresh located in Salinas, California to apply the appropriate atmospheric composition to the vans. The cost for the specialized van and the gassing application is approximately seven thousand dollars per van.

Keeping in mind that each produce species type is biologically different, it is vital to remember that transporting the wrong produce together can result in a loss of produce quality and/or quantity. Unlike the commercial produce industry that deals with large quantities of a single type of produce when shipping, the United States military deals in small quantities of many varieties of fruits and vegetables. Often, up to ten different types of produce can be found in one controlled atmosphere seavan.

Table 1, supplied by TransFresh of Salinas, California, is a sample of possible breakdowns of the various gas and temperature compositions TransFresh currently uses for produce being shipped to the Pacific region along with some sample commodities for each van type.

Since the beginning of the Controlled Atmosphere Reliable Transportation System program, many successes have been enjoyed by the customers as well as the Defense Personnel Support Center - Pacific. Customers now receive their produce within 19 to 21 days from placing their order. The order/ship time (OST) for produce going to the Pacific region was averaging 105 days prior to the CARTS program. Shrinkage, the produce

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VAN ID	TEMP	% CO2-O2 / MAX CO2	COMMODITIES
A1	33	0.0 - 2.0 / 2.0	apples, pears, grapes, iceberg lettuce
A2	33	5.0 - 3.0 / 10.0	peach, nectarine, plum, kiwi, cherry, sugarcane, berries, persimmon
B1	33	3.0 - 2.0 / 7.0	artichoke, celery, carrot, bok choy, leeks, leaf lettuce cauliflower, radish, herbs, cabbages
B2	33	8.0 - 3.0 / 12.0	broccoli, spinach, asparagus, greens, sweet corn, green onion, sweet peas, brussel sprouts
B3	36	18.0 - 3.0 / NA	cantaloupe, sweet corn, broccoli, strawberry
D1	39	5.0 - 5.0 / 8.0	nuts, dates, tangelo, mandarin, citrus, oranges, cantaloupe
F1	45	5.0 - 3.0 / 8.0	honeydew, casaba, crenshaw, santa claus melon, watermelon, avocado, limes, pineapple, peppers, cucumber, summer squash, green beans
F2	56	3.0 - 3.0 / 6.0	banana, papaya, grapefruit, lemon, tomato, winter squash, passion fruit, mango

Table 1. Sample Van Loads/Atmosphere Compositions Used in CARTS

industry term for the percent of produce losses, is often used as a measure of effectiveness for the distribution of produce. During the first year of the CARTS program over twelve million pounds of perishable produce was shipped via sealift to the Pacific region. These shipments enjoyed a 94% success rate with only 6% accounting for shrinkage. The current shrinkage rate for commercial distribution to the Pacific region is 30%. Due to this success of sealift transportation, more produce is arriving via sealift as opposed to airlift. This has resulted in additional savings in transportation costs, which have been passed on to the end user. During the first year of the program, since more produce is being shipped via sealift, transportation savings to Guam was approximately three million dollars. Transportation savings to Korea was approximately two and one-quarter million dollars. Okinawa was not receiving shipments via airlift prior to the program so its transportation costs have increased, but the benefit to Okinawa is the availability of fresh fruits and vegetables that were not available prior to the program.

An unforeseen benefit to the CARTS project is the possible management of bug infestation. After shipments of produce arrive at their overseas destination, they must undergo a thorough inspection process before they can be officially entered into the country and put on the shelf for consumers to buy, or put on the table for the troops to consume. These regulations and quarantines are in place to ensure the growth and prosperity of native crops. By controlling the atmospheres as is accomplished through the implementation of CARTS, and by reducing the oxygen levels within the vans, an additional benefit to the controlled atmosphere reliable transportation system has been discovered. During many test runs, it has been shown that by storing and transporting produce under a controlled atmosphere, insects typically located within the shipments have been killed. The Defense Personnel Support Center - Pacific is currently experimenting with different gaseous levels to determine if a bug dis-infestation program can be established that will work 100 percent of the time. While the tests are going well, a failproof system has not yet been established. However, the implications of a successful program are almost unimaginable. When this technology is perfected, it could very easily lead to the breakdown of all non-political produce quarantines worldwide. This could also

be the answer to the environmental issues concerning various fumigants - many of which will be environmentally banned by the year 2000. A more practical benefit would be the cost savings realized by not having to pay for fumigations directed by overseas customs officials and the sales increases associated with the expansion of marketing potential. Needless-to-say, this technology is being further investigated by DPSC-P and the potential opportunities it brings only stresses the need for the their Global Source Initiative to be put in place as quickly as possible.

Controlled atmosphere technology is not a dead issue for the military by any means. Besides temperature and atmospheric composition, humidity management is another crucial factor involved in produce environmental controls. The Defense Personnel Support Center - Pacific, along with American President Lines (APL), TransFresh Corporation, Humidity Management Systems (HMS) and the Defense Subsistence Office - Alameda, will be conducting tests on humidity management. These tests will be designed to determine how much, if any, value can be added to extending produce shelf-life and marketability by adding humidity management to the current CARTS program. If benefits are achieved through testing, humidity management will be incorporated into produce shipments to the Pacific region. In addition to technological advances, program expansion is also being discussed. Through the support of the Defense Subsistence Office - Alameda, the usefulness of controlled atmospheres within the storage depot process of the distribution chain has been recognized and hopefully further investigation will be done in this arena. Additionally, if the U.S. Navy can be brought on board, ship storage lockers aboard ship appear to be bright candidates for the use of controlled atmospheres. This would allow for perishable products to be available to sailors throughout lengthy deployments.

III. THE MODELS

All of the models used in this thesis run on the General Algebraic Modeling System, or GAMS. All of the models read in spreadsheet data formatted on Lotus 1-2-3 Release 4 spreadsheets. The three models to be discussed are all formulated and solved as mixed integer programs.

Model A identifies possible sites to locate controlled atmosphere gassing sites. These sites would be able to consistantly provide produce to the demand regions while minimizing overall costs. Model B optimizes van loading possibilities dealing with demand data only. Based on the supplies-on-hand, the model can suggest a van loading schedule that minimizes the total number of vans needed to meet the demand. Model C provides a shipping schedule that meets all demands while minimizing overall costs. Outputs identify the amount of each commodity type from the source countries to be loaded into each particular van type to meet all demands while minimizing overall costs and the number of vans needed.

A. POSSIBLE CARTS SITES MODEL

In the broadest sense of global sourcing, it would be necessary to identify potential areas for controlled atmosphere gassing stations. Most of the demanded produce can be found in various foreign countries. It then becomes necessary to be able to identify those sites that result in the lowest overall costs for shipment and gassing. By looking at demand data and available supply at potential supply sites it is possible to modify a multi-commodity flow problem to determine if some of the possible supply countries are good candidates for establishing a Controlled Atmosphere Reliable Transportation site. Model A, described below, will make it possible to determine if shipping directly from various supply countries where multiple item codes are available to destination countries with a known demand could result in a lower overall cost to the government. Shipping directly from a site closer to the originating source should result in better quality produce reaching the end user. Model A identifies how much of each commodity type should be shipped

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from which source country to meet the demands at the destinations countries while minimizing total costs.

By studying the results and perturbing the inputs, the user of the model could identify source countries that repeatedly appear in the results. These countries would be good candidates for possible CARTS stations and could warrant further investigation. This particular model uses an aggregation of weekly shipment demands and minimizes total cost based on an annual demand. Results from the model indicate how much of each commodity should be shipped from the supply/source countries to minimize overall costs while meeting destination demands.

MODEL A

Indices
d	Demand / Destination Countries
k	Commodity Type
s	Source Countries

Constants
BigSCost	Large cost value to be assigned to the use of surplus stock
BigShip	Large value to be assigned to binary transportation decision variable

Data
Cost(k,s)	Cost of commodity k at source country s
Demand(k,d)	Amount of commodity k needed at destination country d
Quarant(k,s,d)	Binary value - 1 if it is possible to get commodity k from source s to destination d - 0 otherwise
Supply(k,s)	Amount of commodity k available at source country s
Surplus(k,s)	Arbitrarily large value assigned as surplus of commodity k that could be shipped from source s
Transport(s,d)	Transportation cost from source s to destination d

Decision Variables
DCost	Direct costs (excluding surplus)
TCost	Total Costs (includes any surplus needed)
X(k,s,d)	Positive Variable - Amount of k to ship from s to d
Y(k,i,j)	Positive Variable - Surplus of k needed to ship from s to d
Z(k,i,j)	Binary Variable - 1 if any shipments of commodity k are made from s to d

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Formulation

Minimize

$$\text{TCost} = \text{Sum}[(k,s,d), [\text{Cost}(k,s) \times X(k,s,d)] + [\text{BigSCost} \times Y(k,s,d)]] + \text{Sum}[(k,s,d), \text{Transport}(s,d) \times Z(k,s,d)]$$

Subject to:

$$\text{Sum}[d, X(k,s,d) \times \text{Quaran}(k,s,d)] \leq \text{Supply}(k,s)$$

$$\text{Sum}[d, Y(k,s,d) \times \text{Quaran}(k,s,d)] \leq \text{Surplus}(k,s)$$

$$\text{Sum}[k, [X(k,s,d) + Y(k,s,d)] \times \text{Quaran}(k,s,d)] \geq \text{Demand}(k,d)$$

$$X(k,s,d) \leq \text{BigSCost} \times Z(k,s,d)$$

$$\text{Sum}[(k,s,d), \text{Cost}(k,s) \times X(k,s,d)] + \text{Sum}[(k,s,d), \text{Transport}(s,d) \times Z(k,s,d)] = \text{DCost}.$$

(actual formulation printout and data sets included as Appendix A)

B. VAN LOADING MODEL

As mentioned previously, produce are complex living organisms. This causes complications when determining how to load vans in the CARTS program. Since there are varying species of produce, storage of incompatible species can increase deterioration rates. In addition, not all perishable produce can be "put to sleep" under the same controlled atmospheric conditions. Yet, since the vans and gassing procedures can be quite expensive and transportation costs are also dependent upon how many vans are shipped, it becomes desirable to minimize the number of vans necessary to ship the desired demand to each destination. The following model, Model B, has an objective function that does just that. It is useful when it must be determined how much space or how many containers will be necessary to hold a given demand. The model is generic enough to be used when determining the number of controlled atmosphere containers that might be required on a ship deployment or for maintaining perishable maintenance parts.

The model is dependent upon a covering matrix which consists of binary values corresponding to each item number and each van type. According to historical shipping data described in Chapter IV, 16 different atmospheric conditions have been used to ship produce via CARTS. These 16 conditions have been labeled with alpha-numeric codes such as A1, B2, and F3. Based on the covering matrix, the produce is loaded into a compatible van based on the known demand for a specific destination. Below is a sample of one of the models used for van loading. Appendix B contains the actual formulation

printout and the related data sets. A virtually identical model can be found in Appendix C. The only difference in that model is that instead of using the actual weekly shipment demands, the demands were aggegated into yearly demands.

MODEL B

Indices
        d   Demand / Destination Countries
        k   Commodity Types
        v   Van Types
        w   Date / Week of Shipment

Constants
    CbLimit   Cubic feet constraint of van
    WtLimit   Weight constraint of van

Data
    Cubes(k)   Cubic feet needed for one unit of commodity k
    Demand(k,d,w)   Demand of k needed at destination d on week w
    Possible(k,v)   Binary value associated with commodity k's ability to be stuffed in van v
    Weight(k)   Weight per unit of k

Decision Variables
    TotVans   Total vans needed to meet demand
    X(k,v,d,w)   Amount of k to ship in van v to destination d on week w
    Y(v,d,w)   Number of van type v needed to be shipped to destination d on week w
    Z(k,s,d)   Binary variable indicating if any shipments are made from county s to country d

Formulation

Minimize
    TotVans = Sum[(v,w,d), Y(v,w,d)}

Subject to:
    Sum[(k,w,d), X(k,v,w,d) x Weight(k) x Possible(k,v)] <= WtLimit x Y(v,d,w)
    Sum[(k,w,d), X(k,v,w,d) x Cubes(k)] <= CbLimit x Y(v,d,w)
    Sum[v, X(k,v,d,w) x Possible(k,v)] >= Demand(k,d,w)
    Sum[k, X(k,v,d,w) * Weight(k)} <= Y(v,w,d) x WtLimit (could use Cubes(k) and CbLimit)
    Sum[(k,v,w,d), X(k,v,w,d)} = Sum[(k,d,w), Demand(k,d,w)

C. SHIPMENT SCHEDULING MODEL

The final model covered in this paper will handle filling the minimum required vans from a variety of possible source countries while meeting the demands at each destination and producing the minimum overall cost. This model uses the same data sets of the previous two models. The formulation is a combination of the two previous models with some slight modifications. The two binary valued tables described above are used simultaneously when computing the constraint for meeting the demands at each destination. In practice, a controlled atmosphere container must be gassed at one site and remain sealed until it reaches its final destination. Therefore, each van must be filled from a single source country and all commodity types stuffed in one particular van must come from the same source country. This constraint, as mentioned above, causes the results from Model B to be a lower bound on the number of total vans required to meet all demands.

The objective function for Model C is to minimize total costs. The van processing cost of eight thousand dollars cited in Chapter I is applied to the variable associated with the number of vans needed. By doing this, the objective of minimizing costs also achieves the goal of minimizing the number of vans needed. Appendix D includes the model for the aggregated data.

MODEL C

Indices
d Demand / Destination Countries
k Commodity Types
s Source Countries
v Van Types

Constants
BigSCost	Large cost value to be assigned to the use of surplus stock
BigShip	Large value to be assigned to binary transportation decision variable
CbLimit	Cubic feet constraint of van
WtLimit	Weight constraint of van
VanCost	Cost associated with processing each van

Data

Cost(s,k)	Cost of commodity k at source country s
Cubes(k)	Cubic feet needed for one unit of commodity k
Demand(k,d)	Amount of commodity k needed at destination country d
Possible(k,v)	Binary value associated with commodity k's ability to be stuffed in van v
Quaran(s,d,k)	Binary value - 1 if it is possible to get commodity k from source s to destination d - 0 otherwise
Supply(s,k)	Amount of commodity k available at source country s
Surplus(s,k)	Arbitrarily large value assigned as surplus of commodity k that could be shipped from source s
Transport(s,d)	Transportation cost from source s to destination d
Weight(k)	Weight per unit of k

Decision Variables

DCost	Direct costs (excluding surplus)
W(v,s,d)	Number of van type v needed from source s to destination d
X(v,d,k,s)	Amount of k to ship in van v from s to d
Y(k,s,d,v)	Amount of surplus of k needed to be shipped on van type v from s to d in order to complete overall demand
Z(k,s,d)	Binary variable indicating if any shipments are made from county s to country d
TCost	Total Costs (includes any surplus needed)
TotVans	Total vans needed to meet demand

Formulation

Minimize

TotalCost = Sum[(k,s,d,v), [Cost(s,d) x X(v,d,k,s)] + [BigSCost x Y(k,s,d,v)]] + Sum[(k,s,d), Transport(s,d) x Z(k,s,d)] + TotVans

Subject to:

Sum[k, X(v,d,k,s) x Weight(k) x Possible(k,v)] <= WtLimit x W(v,s,d)

Sum[k, X(v,d,k,s) x Cubes(k) x Possible(k,v)] <= CbLimit x W(v,s,d)

Sum[k, X(v,d,k,s) * Weight(k)] <= Y(v,w,d) x WtLimit

Sum[(k,v,d,s), X(v,d,k,s)} = Sum[(k,d), Demand(k,d)

Sum[(v,d), X(v,d,k,s) x Quaran(s,d,k)] <= Supply(s,k)

Sum[d, Y(k,s,d,v) x Quaran(s,d,k)] <= Surplus(s,k)

Sum[(s,v), [X(v,d,k,s) + Y(k,s,d,v)] x Quaran(s,d,k) x Possible(k,v)] >= Demand(k,d)

X(v,d,k,s) <= BigSCost x Z(k,s,d)

Sum[(k,s,d,v), Cost(s,k) x X(v,d,k,s)] + Sum[(k,s,d), Transport(s,d) x Z(k,s,d)] = DCost

Sum[(v,d,s), W(v,s,d)] = TotVans

IV. THE DATA

All the data used in the models described in Chapter III are stored in Lotus 1-2-3 Release 4 spreadsheets. Since all of the data is highly stochastic it is imperative that the user have access to the files. The files should be easy to change and be accessible to the optimization models. By using the spreadsheet format, both of these goals are met. The data is easy to manipulate and by saving the files in text format the data can be read into the GAMS programs.

The data files created include: demand data, supply amounts per country, commodity costs per source country, weight, in pounds, per commodity type, cubic feet requirements for each commodity type, binary variables associated with transportation ability from source country to demand country, binary variables associated with quarantine or other restrictive methods not allowing a commodity type from a source country to enter into a demand country, van load possibilities for each commodity type, and the use of an assigned surplus value that might be needed to ensure that supply meets demand. All of these data sets are expounded on in the following sections.

A. DEMAND DATA COLLECTION

1. Available Automated Data Files

Data pertaining to shipments sent via the Controlled Atmosphere Reliable Transportation System is collected by the Defense Subsistence Office - Alameda, located in Richmond, California. This information is stored in numerous dBase IV files and is available through either the Defense Subsistence Office - Alameda or the Defense Personnel Support Center - Pacific. The primary files used for data collection for this paper are separated by destination country (Guam, Okinawa, Korea) and are organized by shipment number. Shipment numbers begin with "one," corresponding to the first shipment of the calendar year, and are sequentially numbered with each weekly shipment. For each country file, the numbered shipments indicate what and how much of each item was sent to the various country destinations as well as additional shipping information not used for this thesis topic.

Additional automated data files were available containing information about the actual shipping procedures, such as shipping company, contract award date, required delivery date, and the shipping date. These files were also organized by shipment number making it possible to identify a corresponding shipping date to the previously mentioned country files.

2. Customer Identification Codes

All three countries currently utilizing CARTS have shipments delivered to more than one destination. These destinations are tracked by using an alpha-numeric code. Each of these codes are frequently referred to by an abbreviated alpha-numeric code with a length of three characters. All further references to shipping destinations will be done with these abbreviated alpha-numeric customer identification codes. Table 2 illustrates the description of each customer code.

COUNTRY	CUSTOMER CODE	DESCRIPTION
GUAM		
	WHY	Andersen DeCA Commissary
	WHZ	Marianas Island DeCA Commissary
	119	Naval Supply Depot
OKINAWA		
	WH5	Central Distribution Center, Kadena AB
	ZW2	TISA
KOREA		
	KD3	6th Support Center
	WHB	Taegu Commissary
	WHA	Pusan Commissary

Table 2. Customer Code Descriptions

3. Item Codes

Each type of produce is labeled with a standard National Stock Number (NSN). However, shipments of produce are tracked by a number known as the Item Code. Item Codes are assigned by the Defense Subsistence Office - Alameda. These item codes comprise the Fresh Fruits and Vegetables Ordering and Receipt System, also known as the "FFAVORS" Item Code File. The FFAVORS file is constantly revised and updated

by the DSO-A as items become available/non-available in the market place. All item codes have five digits.

There is a pattern related to the assigning of an item code. Those item codes beginning with a 0 indicate produce ordered/destined for a troop activity, item codes beginning with a 1 indicate produce items ordered/destined for resale activities (such as commissaries), and item codes beginning with a 5 indicate produce that is being shipped via airlift. It is possible for a produce item with a single National Stock Number (NSN) to be assigned more than one item code.

4. Demand Data Manipulation

With the way the data is currently collected, it is not possible to easily track the demand for a given item code. If a query is run to track a particular item, it must be run on four different files. After these queries have been integrated, they must be sorted by shipment number and the dates of the corresponding shipment files must be imported from yet a fifth file and copied to each corresponding record. To adequately analyze demands by item code, it became necessary to create a master data base that used item codes as a way of organizing records. The fields for each record include the Julian date corresponding to the shipment date, and the demand for each customer identification code based on the particular item code and julian shipment date.

The data was originally contained in just over 45,000 line items corresponding to four data base files. By orienting the data as described above, it was possible to identify that the 45,000 line items were made up of various combinations of 415 different item codes. These codes are listed in Appendix E. Since shipments are made weekly, the master data base consists of approximately 21,580 records (415 item codes x 52 weeks) and 9 fields (8 customer identification codes + julian date). This results in a matrix of 172,640 variables.

Once the master data base was set up, it became possible to create data bases for each individual country based on customer identification codes. Subtotals and grand totals were added to these databases to analyze the amounts of produce sent to each destination as well as the total of each item code sent to all destinations on each shipment. It was

now possible to identify how many order of each item code had been placed since the beginning of the program.

However, the size of the data set was still rather large. Further investigation into the 415 identified item codes revealed that not all of the items were actually fresh fruit and vegetables. Items such as fruit juices and cans/jars of salsas and dressing were also being shipped via CARTS. These items were removed from the current sample. In addition, various products had several item codes assigned to them depending on how they were packaged. For example, there were individual item codes for red delicious apple that were packaged in ten pound bags and those shipped "loose" or for russet potatoes shipped in ten, 50 or 100 pounds increments. By multiplying the unit shipping weights for each individual item code by the ordered amount of the item, and then grouping the item codes by similar product, it was possible to get a more realistic weekly weight demand for each related type of product. This also aided in reducing the size of the needed database. Item codes were grouped together and the smallest non-zero item code associated with each product was used in the database. Appendix F is the revised listing of grouped item codes with the associated product description.

B. SUPPLY AVAILABILITY AND COST DATA

Supply data for the models used in this paper was gathered from import reports generated at the United States Department of Commerce, Bureau of the Census. Readers should keep in mind that supply possibilities are not limited to import information. Data collection from this source is only a starting place for data utilized in DLA's Global Sourcing Initiative. "Official U.S. import statistics are compiled from copies of the Customs Service entry summary forms which are required to be filed with Customs at the time the merchandise is released to the importers." (Bureau of the Census, Technical Documentation, 1993, page 1) Goods associated with international trade are classified by an international Harmonized Commodity Description and Coding System. This system was designed in 1989 by the Customs Cooperation Council located in Brussels. This harmonized coding system employs a hierarchical six digit coding system that is broken down by two digits for every subtopic/subitem. The Customs Cooperation Council has

indicated that individual countries may adopt the harmonized coding as is or they may further expand the codes into further subcategories as needed.

Specifically, data used in these models was gathered from *U.S. Exports History: Historical Summary 1989 - 1992 on CD Rom* prepared by the Bureau of the Census. Harmonized codes corresponding to commodity types identified in the demand files were analyzed and a yearly average of the imported product (in pounds) was used as the available supply. Corresponding harmonized codes for all of the original demand item types were not found through this source. However, approximately 90 matches were found through this document and the corresponding item codes were used in Models A and C. Appendix G is a listing of matched supply and demand item codes.

Included in the historical summary was the Customs Imports Value. This value reflects the value of imports as appraised by the U.S. Customs Service and is generally defined as "...the price actually paid or payable for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance and other charges incurred in bringing the merchandise to the United States." The Customs Imports Values were also averaged and this data is used in the models. In practice, once possible sites are identified a military representative for DPSC-P would be available on-site to verify and communicate current prices that would be entered into the model.

Appendix H is the averaged annual supply data corresponding to the demand data and the associated average costs per pound. Only those countries that could provide five or more different commodity types were used for the model runs.

C. WEIGHT AND CUBIC FEET DATA

Information containing the weights and cubic feet per unit per commodity type are located in the same dBase IV files that the demand information is located. These files contain information based on item units. The demand data utilized in the model is based on pounds rather than units (as mentioned earlier, similar items with varying codes were not necessarily measured in the same unit). Therefore, it was necessary to modify the weight and cubic feet per unit data. All item weights are reflected as one (1) since the modified unit in the models is pounds. Cubic feet data was divided by the number of

pounds per unit for the corresponding item and that number is placed in the Cubes(k) spreadsheet. Appendix I contains the converted cubic feet per pound data used in the models.

D. TRANSPORTATION DATA

Transportation has not been realistically modeled in the computer runs. A constant transportation cost has been assigned to all shipment possibilities. This allows potential global sourcing sites to be identified based solely on commodity availability in source countries.

E. QUARANTINE, VAN LOAD POSSIBILITIES, AND SURPLUS DATA

A "catch-all" table labeled "Quaran" consists of a covering matrix corresponding to the shipment of each commodity type from every possible source country to every possible destination. This covering matrix consists of the number "one" if it is possible for the commodity type from the source country to enter the destination country and the number "zero" otherwise. While labeled "Quaran," this matrix can be used not only to reflect quarantine restrictions, but also as an indicator of possible transportation routes. For example, apples grown in Equador may not have any quarantine restrictions for entering Korea, yet if no transportation network is currently established, a zero would be entered. Likewise, this table can be used for any reasons shipments may not be possible.

The "Quaran" table is intended to be used to indicate whether a specific item from one country can feasibly enter another country. Model runs were conducted with all values set to "one." This allows the user to identify possible CARTS sites based on produce availability only. After possible sites have been identified, further runs should be made with more attention paid to this value. Since the values are binary in nature, it is not difficult to modify this data.

Van load possibilities are simply tables consisting of zeros and ones. Historical shipment data from the demand files was used to assign possible vans to each item. As shipments are modeled and the specific atmospheric conditions to be used are known this data can be updated as needed.

A buffer table labeled "Surplus" has been added to enable the model to adequately handle situations where the overall supply is less than the overall demand. "Surplus" has associated with it an arbitrarily large penalty cost labeled BigSCost to ensure that "Surplus" amounts are only used when the supply does not meet the demand. The variable DCosts reflects the total costs associated with shipments of available supply (no surplus costs). The value inputted into the Surplus table is completely arbitrary. Its sole purpose is to ensure that the total overall supply is greater than the overall demand.

F. CONCLUSIONS

The data sets used in this thesis should not be considered final. This chapter describes the origins of data collection for each of the models. While the data collected is accurate as of this date, all of the data associated with the produce industry is highly stochastic. All of the data sets described above should be considered only as a "place to start." Verification and possible modification of the data sets may be necessary prior to further model iterations.

V. RESULTS

A. POSSIBLE CARTS SITES

Models A and C provide some insight into some possible foreign locations that could provide a substantial amount of produce to meet DPSC demands. Model A results are achieved without including the constraint of compatible van loading. Model C is similar to A only in that it includes the restriction that shipped produce must be loaded in a compatible van. Both model results listed below used the aggregated demand data. Their results are listed in Tables 3 and 4. Table 5 provides a comparison between the top five results obtained from the two models.

Regardless of which model is run, or whether or not van restrictions are taken into account, the same five source countries top both lists. In addition, the same five countries can provide virtually the same percentage of demand in both models. In fact, the percentage of produce shipped increased by two percent when including van loading restrictions. This implies that DPSC could get a good estimate of possible source countries from the model without including van loading restrictions.

B. VAN LOADING RESULTS

Three different categories of van loading was analyzed. The first three runs used aggregated demand data for Okinawa, Korea and Guam. No supply sites were included in the run and the van loads are dependent only on the demand on hand. The second three runs used aggregated demand data for Okinawa, Korea, and Guam and included supply sources. The vans were loaded with compatible produce available at various supply sites and met the demand at the three destination countries. The final three runs used the weekly demand data for Okinawa, Korea, and Guam. Supply sites were also included in these runs. Table 6 lists the results that were obtained.

Ranking	Supply Source	Pounds Shipped
1	Canada	4,014,124
2	Guatemala	1,726,256
3	Mexico	1,513,146
4	Dominican Republic	1,366,497
5	Bahamas	1,143,361
6	Jamaica	320,040
7	Chile	316,121
8	Honduras	289,345
9	Peru	190,042
10	Costa Rica	152,030
11	Mauritius	133,944
12	France	83,370
13	Ecuador	81,350
14	Venezuela	70,702
15	China - Mainland	32,980
16	Australia	8,450
17	Netherlands	6,810
18	Spain	2,350
19	Argentina	1,640
20	China - Taiwan	1,494
21	Israel	560
22	Colombia	340
23	Malaysia	246
24	Germany	240
25	Hungary	190
26	Thailand	100

Table 3. Results from Model A - Multicommodity/No Van Restrictions

Ranking	Supply Source	Pounds
1	Canada	3,709,985
2	Guatemala	1,743,683
3	Dominican Republic	1,722,381
4	Mexico	1,717,714
5	Bahamas	1,172,800
6	Chile	351,115
7	Honduras	288,745
8	Peru	190,042
9	Costa Rica	152,030
10	Mauritius	133,944
11	France	83,370
12	Venezuela	70,702
13	Ecuador	53,166
14	Colombia	20,988
15	Monaco	17,461
16	China - Mainland	12,332
17	Australia	8,450
18	Spain	2,350
19	Argentina	1,640
20	China - Taiwan	1,494
21	Israel	560
22	Malaysia	246
23	Germany	240
24	Hungary	190
25	Thailand	100

Table 4. Model C Reuslts - Multicommodity/ With Van Restrictions

Source Country	Pounds		Percentages	
	No Vans	With Vans	No Vans	With Vans
Canada	4,014,124	3,709,985	35.04	32.39
Guatemala	1,726,256	1,743,683	15.07	15.22
Mexico	1,513,146	1,717,714	13.21	14.99
Dominican Rep.	1,366,497	1,722,381	11.93	15.04
Bahamas	1,143,361	1,172,800	9.98	10.24
Totals	**9,763,384**	**10,066,563**	**85.23**	**87.88**

Table 5. Comparison of top five results from Models A and C.

Number of Vans Needed				
Model Runs	Okinawa	Korea	Guam	Total
1-3	54	215	250	519
4-6	54	217	250	521
7-9	175	531	700	1406

Table 6. Model B Results - Number of Vans Needed

Surprisingly, there is little difference between the number of vans needed when looking at the results of the first two categories. There is only a zero to ten percent increase in the number of vans required when loading them from a source location in comparison with loading the vans based solely on the known demand. This information can be helpful in projecting costs associated with acquiring vans and gassing them prior to having actual knowledge of where the product might be shipped from.

There is a rather large difference in the number of vans required when using the aggregated annual data as opposed to using the actual weekly demand data. This is due to the ability to more efficiently fill each van when a large demand is being met. The smaller the demand levels, the more difficult it becomes to ship a completely full van. These results imply that if using aggregated data, the results can understimate van requirements by up to 3.4 times.

While the number of vans needed based on demand alone and the number of vans needed when shipping from a source site are relatively identical, the van types chosen to be loaded can be considerably different. Table 7 breaks out the specific number of each van type needed for the various model runs. Table 8 is a comparison by percentages.

	MODEL RUNS (1-3)			MODEL RUNS (4-6)			MODEL RUNS (7-9)		
Van	G	K	O	G	K	O	G	K	O
A1	15	5	0	40	2	3	123	58	44
A2	100	100	0	65	97	20	16	32	0
A3	0	0	0	0	0	0	26	109	0
B1	22	15	28	37	0	1	92	76	31
B2	18	14	0	19	30	0	56	58	14
B3	0	0	1	1	0	2	5	0	0
C1	29	21	1	29	21	1	39	2	0
D1	10	33	10	13	37	15	65	18	33
D2	0	0	0	0	2	0	0	29	37
D3	0	0	0	0	0	0	0	0	0
D4	0	0	0	0	0	0	0	0	0
E1	1	1	0	3	22	0	36	19	0
E2	0	0	0	0	0	0	13	13	0
F1	33	2	1	11	0	12	136	54	12
F2	22	26	13	32	4	0	93	63	4
F3	0	0	0	0	0	0	0	0	0

Table 7. Comparison of specific number of van types needed.

Van Type	Runs 1-3	Runs 4-6	Runs 7-9
A1	3.84	8.67	16.00
A2	38.39	35.07	3.41
A3	0	0	9.60
B1	12.48	7.32	14.15
B2	6.14	9.44	9.10
B3	.20	.58	.35
C1	9.79	9.83	2.92
D1	10.17	12.52	8.25
D2	0	.39	4.69
D3	0	0	0
D4	0	0	0
E1	.38	4.82	3.91
E2	0	0	1.85
F1	6.91	4.43	14.37
F2	11.71	6.94	11.38
F3	0	0	0

Table 8. Comparison of percentage of specific van types needed.

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C. SUMMARY

Based on the data gathered for this thesis, the following countries could be good candidates to establish CARTS sites at: Canada, Guatemala, Mexico, Dominican Republic, and the Bahamas. Model runs indicate that approximately 85 percent of current demands for Guam, Korea and Okinawa can be met from these countries.

By knowing the demand needed in advance, it is possible to estimate the total number of vans that will be required within a ten percent error without knowing where the shipments should be made from. (Note: Ten percent error rate is based on nine model runs. It could conceivably be higher under varying circumstances.)

It is not possible to uniquely predict the numbers of each type of van that will be required. Since most commodities can fit into more than one type of van, numerous loading combinations are possible. If a particular van type is desired to be used for a specific reason it will be up to the decision maker to appropriately adjust the binary variables associated with the van loading possibilities.

VI. RECOMMENDATIONS AND AREAS OF FURTHER STUDY

A. RECOMMENDATIONS

Based on this thesis, the following recommendations are made:

1. A Global Sourcing Initiative should be established at DPSC - P.

2. DPSC - P should have full control over the planning, ordering, and execution of the Global Sourcing Initiative.

3. DLA should adjust item coding procedures to match the international Harmonized Coding System. This would ease the transition for ordering and locating specific produce items worldwide.

4. A DPSC - P representative should be assigned to visit the possible CARTS site locations identified to further evaluate feasibility.

5. DLA and DPSC should subscribe to the U.S. Department of Commerce, Bureau of the Census, Imports and Exports Historical data. CD ROMs are available on monthly and quarterly bases and would be beneficial in building on the databases started in this thesis.

6. Further studies should begin on analyzing the use of controlled atmosphere mini-containers that could be used aboard ships for lengthy deployments and for storage of sensitive maintenance spares.

B. AREAS OF FURTHER STUDY

There are many areas of this thesis, both with the developed models and the actual technology involved, that can be expanded. For example:

1. Further study of the use of controlled atmospheres on Navy ships, shipping depots and shore stations.

2. Further investigation into transportation costs. These evaluations should include costs from point of harvest to port of debarkation, from port to port and from port of embarkation to final destination.

3. More extensive data collection on any of the data sets involved in this thesis.

4. Site visits of identified possible CARTS sites to ascertain feasibilities.

5. Complete cost / benefit analysis when more detailed data becomes available.

APPENDIX A. POSSIBLE CARTS SITE LOCATIONS MODEL

```
*--------------GAMS AND DOLLAR CONTROL OPTIONS-----------------------------------------------

$OFFUPPER  OFFSYMLIST   OFFSYMXREF

OPTIONS
        LIMCOL = 0,     LIMROW = 0,     SOLPRINT = OFF,   DECIMALS = 2
        RESLIM = 5000,  ITERLIM = 5000,  OPTCR = 0.1,      SEED = 3141;


*-------------------------------------------------------------  ------------------------------------

$INCLUDE SET.TXT
$INCLUDE SUPPLY.TXT
$INCLUDE SURPLUS.TXT
$INCLUDE QUARAN.TXT
$INCLUDE DEMAND.TXT
$INCLUDE COST.TXT
$INCLUDE TRANS.TXT


*--------------------------------------------------------------------------------------------------

BINARY VARIABLES
        Z(k,s,d)                INDICATES IF SHIPMENT MADE FROM s TO d;

POSITIVE VARIABLES
        X(k,s,d)                AMOUNT OF K TO SHIP FROM s TO d
        Y(k,s,d)                UNAVAILABLE STOCK;

VARIABLE
        TCOST                   TOTAL TRANSPORTATION COST
        DCOST                   DIRECT COSTS NO BACK ORDERS;

EQUATIONS
        OBJ                     TOTAL TRANSPORTATION COST
        AVAIL(s,k)              OBSERVE SUPPLY LIMIT AT SOURCE s
        STOCKOUT(s,k)           ADDITIONAL STOCK NEEDED
        NEED(k,d)               SATISFY DEMAND AT DESTINATION d
        SHIP(k,s,d)             SELECT ROUTE FROM s TO d
        DIRECT                  DIRECT COSTS;

*--------------------------------------------------------------------------------------------------
OBJ..              TCOST =E= SUM((k,s,d), COSTS(s,k) * X(k,s,d)) + SUM((k,s,d), Z(k,s,d));
AVAIL(s,k)..       SUM(d, X(k,s,d)) =L= SUPPLY(s,k) ;
STOCKOUT(s,k)..    SUM(d, Y(k,s,d) * QUARAN(s,d,k)) =L= SURPLUS(s,k);
NEED(k,d)..        SUM(s, X(k,s,d)) =G= DEMAND(k,d) ;
SHIP(k,s,d)..      X(k,s,d) =L= 10000000 * Z(k,s,d);
DIRECT..           DCOST =E= SUM((k,s,d), COSTS(s,k) * X(k,s,d)) + SUM((K,S,D),
                      Z(K,S,D));
*--------------------------------------------------------------------------------------------------
```

```
MODEL THESIS /ALL/
SOLVE THESIS USING MIP MINIMIZING TCOST;

*_____

PARAMETER REPORT (*,*,*,*);
REPORT (K,S,D,"# TO SHIP") = X.L(K,S,D);
REPORT (K,S,D,"BACK ORDER") = Y.L(K,S,D);
REPORT (K,S,D,"COSTS") = X.L(K,S,D) * COSTS(S,K) + Z.L(K,S,D);

*_____

DISPLAY TCOST.L, DCOST.L; X.L, Z.L;
DISPLAY REPORT;

*_____
```

INCLUDE   C:\GAMS\SET.TXT

SETS

s sources

/
Argentin,   Australi,   Bahamas,   Belgium,   Belize,   Brazil,
Canada,   Chile,   China_Ma,   China_Ta,   Colombia,   Costa_Ri,
Domin_Re,   Ecuador,   Egypt,   El_Salva,   France,   Germany,
Greece,   Grenada,   Guatemal,   Haiti,   Honduras,   Hong_Kon,
Hungary,   India,   Israel,   Italy,   Jamaica,   Japan,
Korea,   Malaysia,   Mauritiu,   Mexico,   Monaco,   Montser,,
Morocco,   Mozambiq,   Netherla,   New_Zeal,   Nicaragu,   Pakisian,
Panama,   Peru,   Philippi,   Poland,   Portugal,   Singapor,
South_Af,   Spain,   St_Lucia,   Sweden,   Switzerl,   Thailand,
Trinidad,   Turkey,   U_Arab_E,   U_Kingdo,   Uruguay,   Venezuel,
Yugoslav /

d demands

/ Guam,   Korea,   Okinawa /

k commodity

/ 14009,   14145,   14262,   14305,   14330,   14340,   14359,
  14370,   14390,   14565,   14570,   14605,   14620,   14626,
  14650,   14830,   14892,   14899,   14938,   14970,   14977,
  16007,   16015,   16041,   16055,   16074,   16077,   16130,
  16140,   16175,   16184,   16202,   16225,   16235,   16264,
  16270,   16280,   16287,   16362,   16380,   16385,   16470,
  16492,   16510,   16523,   16525,   16611,   16620,   16700,
  16720,   16813,   19621,   19628,   19701,   19710,   19745,
  19750 /

;

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INCLUDE   C:\GAMS\SUPPLY.TXT

TABLE

SUPPLY(S,K)

	14009	14145	14262	14305	14330
Argentin	14253955	28619850	0	0	0
Australi	334407	4420555	0	0	0
Bahamas	0	0	0	0	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	2844961	0	0	0	0
Canada	1.1E+08	858212	79366	54013	14833
Chile	55410328	66640528	0	633857	173313
China_Ma	0	0	0	3293365	5769
China_Ta	0	0	0	0	15911
Colombia	0	0	0	0	187467
Costa_Ri	0	0	992027943	0	74406
Domin_Re	0	0	1.66E+09	19899	2844441
Ecuador	0	0	3127077	26936	24642982
Egypt	0	0	2.10E+09	0	0
El_Salva	0	0	0	0	0
France	4121046	0	0	0	267954
Germany	0	0	0	3007	2452
Greece	0	0	0	0	289068
Grenada	83669	5763	0	3342	0
Guatemal	0	0	0	0	0
Haiti	0	0	718792319	3175	0
Honduras	0	0	0	0	3047
Hong_Kon	0	0	1.01E+09	0	408264
Hungary	64155	41667	0	0	219848
India	0	0	0	48075	0
Israel	0	0	0	0	74302
Italy	0	109802	0	0	84001
Jamaica	0	0	0	1587	0
Japan	0	2868302	358059	0	64395
Korea	0	2167970	0	0	37033
Malaysia	0	0	0	0	0
Mauritiu	0	0	0	0	980868
Mexico	0	8318	0	0	0
Monaco	0	0	514218384	38681	6498243
Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	118737
Netherla	12106	0	0	0	0
New_Zeal	57674106	3007689	0	44000	106325
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Peru	0	0	137947026	0	0
			0	0	50001

Philippi	0	0	0	8047	75383383
Poland	0	0	0	0	0
Portugal	0	0	0	12421	0
Singapor	0	0	0	0	326994
South_Af	21086556	2805603	0	0	0
Spain	0	0	0	32981	0
St_Lucia	498088	366402	212434	0	0
Sweden	0	0	0	0	0
Switzerl	0	0	0	1607	0
Thailand	0	0	0	55174	38250
Trinidad	7773	0	0	0	0
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	11823	0	0	0	62748
U_ruguay	0	0	0	0	0
Venezuel	0	0	41205399	15556	171630
Yugoslav	0	0	0	7121	0
+	14340	14359	14370	14390	14565
Argentin	0	0	0	30512	0
Australi	0	1834	0	0	1102
Bahamas	0	0	0	16133463	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	0	46200	0	0	0
Canada	37676194	9743	327593	54739	0
Chile	3155	0	0	0	16103039
China_Ma	0	0	2722321	3968	0
China_Ta	0	0	19842	0	0
Colombia	0	12360	2976	0	0
Costa_Ri	0	0	47840	0	0
Domin_Re	0	0	0	998088	0
Ecuador	0	0	0	0	0
Egypt	0	0	27760	0	0
El_Salva	0	0	0	0	0
France	0	14343	0	0	0
Germany	0	21587	0	0	0
Greece	0	2536536	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	0	10739	0	0
Haiti	0	0	83112	0	0
Honduras	0	0	0	0	0
Hong_Kon	0	0	139213	0	0
Hungary	0	15873	0	0	0
India	0	0	5196	0	0
Israel	0	893	435482	588791	0
Italy	0	153057	595	0	888259
Jamaica	0	0	0	170723	0
Japan	0	0	3528	0	0
Korea	2255	0	421	0	0
Malaysia	0	0	141887	0	0

Mauritiu	0	0	0	0	0
Mexico	0	1064033	283021	464449	0
Monaco	0	0	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	0	0
New_Zeal	0	0	0	0	39383744
Nicaragu	0	0	0	0	0
Pakistan	0	6319	10039791	0	0
Panama	0	0	0	0	0
Peru	0	0	0	0	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	22360	0	0	0
Singapor	1887	841	152929	0	0
South_Af	0	0	0	0	0
Spain	0	3920957	1613	0	0
St_Lucia	0	0	0	0	0
Sweden	9367	0	19731	0	0
Switzerl	0	0	0	0	0
Thailand	0	17637	2811	0	0
Trinidad	0	0	0	0	0
Turkey	0	0	4625	0	0
U_Arab_E	0	5291	64706	0	0
U_Kingdo	0	42000	705229	0	0
Uruguay	0	0	0	0	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	0	0
+	14570	14605	14620	14626	14650
Argentin	0	0	0	13007	27937
Australi	403816	0	0	3125651	0
Bahamas	10749701	3568382	0	269392	0
Belgium	0	0	0	0	0
Belize	0	117738	0	0	0
Brazil	0	0	2495063	13801	0
Canada	0	0	0	58798	2109699
Chile	3642735	35995	15723	0	1.0E+08
China_Ma	3998	0	11039	0	0
China_Ta	7251	0	23223	0	1190
Colombia	3307	608461	30815	50876	5302
Costa_Ri	22625	276585	56266	0	0
Domin_Re	88619	40396	178541	7531714	0
Ecuador	42881	1016426	250331	0	0
Egypt	0	0	0	565254	0
El_Salva	0	420243	2088	0	0
France	0	0	3847	0	0
Germany	91354	0	0	1433	0
Greece	72845	0	0	0	191551
Grenada	0	0	165636	0	0

Guatemal	21808	262832	699328	0	0
Haiti	0	134949	9332802	0	0
Honduras	34000	1020809	7624	0	0
Hong_Kon	0	2678	0	0	0
Hungary	0	0	0	0	0
India	13404	0	76456	0	0
Israel	10474	0	0	3994584	0
Italy	72356	0	0	363441	0
Jamaica	0	0	4105	2146184	0
Japan	1124	0	0	937	0
Korea	0	0	0	0	0
Malaysia	7038	3126	0	0	0
Mauritiu	0	0	0	0	0
Mexico	551663	1.5E+08	52840067	15144984	359423
Monaco	0	49800	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	21791654	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	5040	0
New_Zeal	0	0	0	0	135960
Nicaragu	0	521512	0	0	0
Pakistan	3307	0	0	0	0
Panama	0	0	0	0	0
Peru	0	0	6059815	0	3419
Philippi	0	0	30983	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	11343	4169	5769	412	4725
South_Af	0	0	0	0	0
Spain	3837378	0	0	5999308	164619
St_Lucia	0	0	0	0	86287
Sweden	0	0	0	0	0
Switzerl	0	0	0	0	35283
Thailand	26753	0	2865	0	0
Trinidad	0	0	2006	0	0
Turkey	666710	558	0	0	0
U_Arab_E	5490	0	0	243	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0
Venezuel	40737	679351	2112635	0	0
Yugoslav	0	0	0	0	0
+	14830	14892	14899	14938	14970
Argentin	0	0	0	97358	0
Australi	0	0	1204	62489	0
Bahamas	2406235	0	0	0	0
Belgium	6746	0	0	0	0
Belize	1356002	0	2230	0	0
Brazil	7262	0	0	0	0
Canada	0	26266	96122	650179	0
Chile	0	50552181	2646	284518	0

China_Ma	0	0	40727	0	0
China_Ta	0	2043	75461	0	0
Colombia	26037	0	478809	1204907	0
Costa_Ri	342635	0	1.3E+08	760447	41566
Domin_Re	969342	0	61429048	72017	58007
Ecuador 3836	0	0	1646766	0	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	4901	0
France	0	619794	0	9307	0
Germany	3999	8709	985	42858	0
Greece	0	0	0	0	0
Grenada	0	46479	0	0	0
Guatemal	3246	0	390446	4995995	0
Haiti	132409	0	3549	0	0
Honduras	0	0	49514477	229175	0
Hong_Kon	0	27209	401176	0	4341
Hungary	0	13054	0	33964	0
India	0	0	0	0	0
Israel	0	46341	0	3082	0
Italy	0	0	0	397	0
Jamaica	1549067	0	0	0	104736
Japan	0	5750	0	60002	1361434
Korea	0	0	0	0	0
Malaysia	0	22201	23854	3598	0
Mauritiu	0	0	0	0	0
Mexico	12036414	0	11995476	78328443	19740821
Monaco	0	0	0	45001	0
Montserr	0	0	0	0	0
Morocco0	0	0	0	7431807	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	130409	0
New_Zeal	0	6842	0	724759	0
Nicaragu	0	0	0	0	0
Pakistan	0	42538	0	0	0
Panama	0	0	57486	0	0
Peru	10009	0	25474	0	0
Philippi	0	0	318963	5638	0
Poland	0	0	0	3215872	0
Portugal	0	0	0	0	0
Singapor	0	0	91750	0	0
South_Af	0	0	0	0	0
Spain	32595	0	0	19181	2825101
St_Lucia	0	35303	0	0	0
Sweden	0	0	0	419	0
Switzerl	0	34392	0	0	0
Thailand	225230	9017	4568711	0	0
Trinidad	686	0	0	0	0
Turkey	0	5644	0	0	0
U_Arab_E	0	21070	0	0	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0

Venezuel	0	0	10115	1340389	0
Yugoslav	0	0	0	621799	0
+	14977	16007	16015	16041	16055
Argentin	0	0	48948	0	92065
Australi	0	0	12798	0	0
Bahamas	519763	0	0	0	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	43109	0	0	0	0
Canada	0	1400	500784	2636068	2944539
Chile	32666	1110667	1189659	0	0
China_Ma	0	0	2522	5000	0
China_Ta	0	0	0	0	0
Colombia	0	403115	26114	0	8358
Costa_Ri	4263892	0	23922	0	181145
Domin_Re	777115	0	13894	0	0
Ecuador	0	0	139909	0	206353
Egypt	0	3193	0	0	0
El_Salva	1018101	0	0	0	500881
France	0	2050	2227	0	8466
Germany	0	0	1102	2000	298
Greece	51006	0	0	0	23184
Grenada	0	0	0	0	0
Guatemal	1250471	0	443405	0	25200919
Haiti	0	0	0	0	0
Honduras	7712156	0	0	0	0
Hong_Kon	0	0	595	0	0
Hungary	0	0	7121	0	0
India	0	0	0	0	0
Israel	0	0	24993	0	72865
Italy	0	123	0	0	0
Jamaica	0	0	0	0	0
Japan	0	0	0	228677	0
Korea	224195	0	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	0	0	298258	0	55305
Mexico	2.3E+08	18634	39197714	1133982	2.9E+08
Monaco	64583	0	19650	0	27922
Montserr	0	0	124151	0	20335
Morocco	30865	0	0	0	0
Mozambiq	148029	0	0	0	0
Netherla	0	0	2302	0	0
New_Zeal	0	0	396532	0	0
Nicaragu	136237	0	0	0	0
Pakistan	0	0	0	0	0
Panama	3444117	0	5114	0	0
Peru	0	125443	4927632	0	27555
Philippi	0	0	0	3900	13757
Poland	0	0	0	4674	0
Portugal	0	0	0	0	0

Singapor	0	0	0	0	19976
South_Af	0	0	0	0	0
Spain	0	0	0	0	80513
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	16316
Switzerl	0	0	0	0	0
Thailand	0	0	115997	0	0
Trinidad	0	0	0	0	0
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	60428	0
Uruguay	0	0	0	0	0
Venezuel	0	0	4586	0	0
Yugoslav	0	0	0	0	0
+	16074	16077	16130	16140	16175
Argentin	0	0	0	0	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	0
Belgium	1694226	114193	125670	0	0
Belize	0	0	0	0	0
Brazil	0	0	0	0	0
Canada	95778563	45255223	278546	9213955	0
Chile	0	125109	40014	116647	0
China_Ma	0	59399	17200	0	0
China_Ta	0	17990	0	0	0
Colombia	0	0	0	0	0
Costa_Ri	43056	68210	0	1543	21578094
Domin_Re	0	0	0	9362	39805
Ecuador	0	2976	81350	0	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	0	0
France	36405	0	302960	0	27957
Germany	0	52882	0	0	0
Greece	0	1991	0	0	0
Grenada	0	0	0	0	0
Guatemal	31206	174910	2325328	1929770	0
Haiti	0	0	0	0	0
Honduras	0	0	0	0	41663
Hong_Kon	7950	0	0	18900	0
Hungary	0	0	16898	0	0
India	0	0	0	80457	0
Israel	2830484	0	180916	209593	0
Italy	0	45522	0	0	0
Jamaica	0	67501	0	0	0
Japan	406	1926	0	0	0
Korea	0	0	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	89144	0	118961	0	0
Mexico	31425091	35148933	49761597	28232257	4992057
Monaco	0	17461	8960	1340	0

Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	0
Netherla	253965	2382489	82459	0	0
New_Zeal	0	0	0	0	0
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Peru	0	1550	0	0	0
Philippi	0	0	0	1440	0
Poland	0	0	67983	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	0	0
South_Af	0	8241	304529	0	0
Spain	0	0	643539	0	0
St_Lucia	0	0	0	0	0
Sweden	0	0	77799	0	0
Switzerl	1254	0	0	0	0
Thailand	0	4085	0	0	0
Trinidad	0	0	0	0	0
Turkey	0	2207	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	7	1764	81409	0	0
Uruguay	0	0	0	0	0
Venezuel	0	70702	0	0	0
Yugoslav	0	0	0	0	0
+	16184	16202	16225	16235	16264
Argentin	0	154762	0	6467686	0
Australi	17895	832188	0	83601	0
Bahamas	12122890	0	0	0	11737
Belgium	14068	95622	0	0	0
Belize	355626	0	0	0	0
Brazil	0	0	0	14611	0
Canada	8139703	19021486	7280	68746	6324
Chile	1653	79553	0	2273768	0
China_Ma	0	50299	0	14376342	0
China_Ta	0	11330	0	2827928	0
Colombia	0	0	0	20988	0
Costa_Ri	26040	11143	82067	0	6241068
Domin_Re	80772	537752	0	0	6426690
Ecuador	15840	14151	2260	0	0
Egypt	0	0	0	42990	0
El_Salva	68667	0	0	21524	0
France	0	0	0	21874	0
Germany	0	41888	0	0	0
Greece	6945	0	0	0	43290
Grenada	0	0	0	0	11353
Guatemal	1055447	24524	0	370369	0
Haiti	0	0	38980	0	472963
Honduras	20334247	0	1770	0	393574

Hong_Kon	0	0	0	0	0
Hungary	0	244885	0	0	0
India	0	0	0	52929	0
Israel	0	2421592	0	0	0
Italy	3426	0	0	0	64709
Jamaica	102327	6343	79959	0	749690
Japan	507	798	0	17832	0
Korea	2250	0	0	9007	0
Malaysia	0	0	0	0	0
Mauritiu	10318	77457	9744	0	0
Mexico	395129957	11153093	38638869	21203117	25552423
Monaco	0	0	0	0	29538
Montserr	0	0	0	40386	8730
Morocco	0	0	0	0	0
Mozambiq	56438	0	0	41482	20371
Netherla	544174	4409	1047	7796	0
New_Zeal	24295	405847	0	0	0
Nicaragu	0	0	0	0	95584
Pakistan	0	0	0	0	0
Panama	0	0	0	0	1358772
Peru	0	35274	0	142881	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	0	0
South_Af	0	0	0	28497	0
Spain	201464	0	0	0	0
St_Lucia	0	0	0	812407	18999
Sweden	3803	0	0	0	34399
Switzerl	0	0	0	0	0
Thailand	0	84899	0	69145	0
Trinidad	0	0	3600	0	0
Turkey	0	0	0	0	308966
U_Arab_E	0	0	5086	0	0
U_Kingdo	0	15384	0	0	0
Uruguay	0	0	0	615	0
Venezuel	0	0	0	68648	0
Yugoslav	0	712307	0	40786	0

+	16270	16280	16287	16362	16380
Argentin	0	0	0	0	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	0
Belgium	1839	0	13720	692	0
Belize	0	0	0	0	0
Brazil	0	0	0	0	0
Canada	3278805	6891	2182985	3150022	45217
Chile	0	2200	22896	33078	20
China_Ma	71906	20767	101	1867	0
China_Ta	0	4043	3519	87718	0
Colombia	0	0	0	0	0

Costa_Ri	35311	15737	556	0	12520
Domin_Re	12500	3512	0	0	266210
Ecuador	0	0	0	0	0
Egypt	0	0	0	0	31512
El_Salva	0	0	0	0	3520767
France	0	0	0	132922	0
Germany	0	0	2879	19647	0
Greece	0	0	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	1544177	14661	243	7693490
Haiti	0	0	0	0	0
Honduras	0	5686	0	0	7867
Hong_Kon	0	0	0	81168	0
Hungary	0	2595	0	1164	0
India	0	0	0	0	0
Israel	0	0	0	0	0
Italy	14844	0	9703	100839	0
Jamaica	30001	1290	0	0	31967
Japan	2205	0	0	68036	0
Korea	406	0	0	31635	0
Malaysia	0	0	0	31242	0
Mauritiu	25097	0	0	0	0
Mexico	11113321	1817415	8674889	3487	33588480
Monaco	7998	0	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	838	0
Mozambiq	0	0	0	0	0
Netherla	992	0	3403	5057	0
New_Zeal	0	3838	0	17488	0
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Peru	0	0	653618	0	0
Philippi	0	0	0	0	1649
Poland	0	0	0	22443	0
Portugal	0	0	0	2471	0
Singapor	0	0	0	13704	0
South_Af	0	0	0	0	0
Spain	0	0	0	158037	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	0	0	0	3517	0
Thailand	0	44092	0	16564	0
Trinidad	0	0	0	0	0
Turkey	0	0	0	43906	0
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	450	0

+	16385	16470	16492	16510	16523
Argentin	90279	165347	0	5750	0
Australi	784948	47399	728	0	0
Bahamas	0	0	142132	0	0
Belgium	594691	381218	997	0	0
Belize	0	0	0	0	0
Brazil	345308	0	0	45680	0
Canada	44426940	21646840	24142	49999	46077
Chile	8954549	42507	0	0	57161
China_Ma	34340	5465408	297593	36718	83687
China_Ta	362092	1541938	16799	4260	0
Colombia	0	5091	0	11073	166918077
Costa_Ri	530474	27896	19224	74976	7348734
Domin_Re	46	255888	163689	17835373	2985975
Ecuador	0	142006	0	0	109876939
Egypt	0	3188	0	0	0
El_Salva	70400	150166	0	0	36969
France	5599656	121878	3968	0	0
Germany	0	179604	0	0	0
Greece	0	0	0	0	0
Grenada	0	0	1681	0	430
Guatemal	2294308	22516842	0	0	2368704
Haiti	10999	0	0	0	0
Honduras	155977	74175	0	0	5693485
Hong_Kon	8446	162094	2701	5805	0
Hungary	0	926217	0	0	0
India	0	17637	191578	0	0
Israel	28472	0	0	0	0
Italy	34053	428150	761	0	0
Jamaica	0	0	66758	17811	1202
Japan	2205	51933	0	17811	1552478
Korea	1587	0	0	5882	0
Malaysia	30818	70257	0	0	0
Mauritiu	316655	3651	0	0	0
Mexico	3.6E+08	7877455	75246959	0	278587
Monaco	30923	6312	0	0	0
Montserr	38691	0	3351	0	0
Morocco	135855	0	0	0	0
Mozambiq	30508	0	0	0	0
Netherla	2307089	12877	1293256	0	0
New_Zeal	2508642	2362194	1830	0	0
Nicaragu	653516	0	0	0	41965
Pakistan	0	0	122919	0	0
Panama	310541	42000	0	0	912357
Peru	0	30171	0	2646	0
Philippi	477155	6255	0	5772	0
Poland	0	978720	0	0	0
Portugal	0	4409	0	0	0
Singapor	0	0	0	4826	0
South_Af	0	0	0	0	0
Spain	258492	2044426	0	0	0

St_Lucia	0	0	0	0	0
Sweden	0	928968	0	0	0
Switzerl	0	0	0	0	0
Thailand	324664	1273808	78719	0	0
Trinidad	0	0	9972	0	0
Turkey	0	36927	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	15966	3958797	0	0	0
Uruguay	125979	0	0	2381	0
Venezuel	104887	10390	0	0	37416450
Yugoslav	0	2209065	0	0	0
+	16525	16611	16620	16700	16720
Argentin	0	0	0	101115	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	41522
Belgium	1543	0	0	97253	0
Belize	43751	0	0	0	28468
Brazil	18889	0	0	0	25000
Canada	4.5E+08	1230351	2562729	89372	395549
Chile	0	0	0	0	0
China_Ma	52992	12869	14067	0	3501
China_Ta	1975	33620	1874	0	0
Colombia	21100	0	0	0	0
Costa_Ri	55453	0	0	0	1932437
Domin_Re	549776	0	0	0	133934
Ecuador	0	0	0	0	0
Egypt	6614	0	0	2200	0
El_Salva	0	0	0	0	72462
France	12814	0	4057	27933	0
Germany	880	3182	0	0	0
Greece	0	0	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	0	0	0	53358
Haiti	0	0	0	0	0
Honduras	0	0	0	0	3954925
Hong_Kon	0	2500	420682	0	0
Hungary	18234	0	0	0	0
India	0	0	0	0	0
Israel	0	0	0	0	0
Italy	0	787	0	0	0
Jamaica	77721	0	0	8120	926973
Japan	7869	6041	921	0	0
Korea	0	4898	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	0	10523	0	0	23916
Mexico	112531	0	128492	4593130	1.8E+08
Monaco	0	36160	0	0	30554
Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	20926

Netherla	112986	0	0	40242	11023
New_Zeal	0	0	0	0	298001
Nicaragu	0	0	0	0	436053
Pakistan	0	0	0	0	0
Panama	0	0	0	0	1093432
Peru	20283	0	0	0	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	0	0
South_Af	0	0	0	0	0
Spain	0	0	0	0	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	271	0	0	0	0
Thailand	0	0	0	0	0
Trinidad	0	0	0	0	290600
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	8344	0	0	0	0
Uruguay	0	0	0	273157	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	0	0
+	16813	19621	19628	19701	19710
Argentin	166101	0	0	0	42990
Australi	0	0	0	0	0
Bahamas	2280589	0	0	0	0
Belgium	1683638	22046	0	0	0
Belize	0	0	0	0	0
Brazil	4740	0	0	13269396	0
Canada	8189828	7521	3546	14018	3312
Chile	30085	1193	0	708787	2698
China_Ma	0	50991	108259	33430	230190
China_Ta	0	0	40724	0	96796
Colombia	16157	0	0	34324	0
Costa_Ri	190224	0	0	0	0
Domin_Re	1833788	0	0	108809	0
Ecuador	74940	0	0	34324	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	0	0
France	27582	536	933	0	66021
Germany	7711	2877	36287	0	0
Greece	0	0	661	0	0
Grenada	0	0	0	0	0
Guatemal	88696	0	0	10310	0
Haiti	0	0	0	0	0
Honduras	532505	0	0	0	0
Hong_Kon	0	4154	429699	30613	0
Hungary	40124	0	0	0	0
India	0	0	0	80167	0

Israel	3777035	5379	88130	0	0
Italy	42439	2111	827	0	7090883
Jamaica	0	0	0	0	0
Japan	1005	3661	0	0	17554
Korea	0	0	44092	0	442376
Malaysia	0	0	0	27024	0
Mauritiu	6173	0	0	0	0
Mexico	7.4E+08	0	86206	0	0
Monaco	106838	0	0	0	0
Montserr	41156	0	0	0	0
Morocco	39630	0	0	0	0
Mozambiq	38673	0	0	0	0
Netherla	7077495	0	0	40832	68015
New_Zeal	5109	0	0	0	0
Nicaragu	0	0	0	0	0
Pakistan	0	1001	6542	0	0
Panama	0	0	0	0	0
Peru	0	0	0	1254721	0
Philippi	0	0	0	51004	0
Poland	0	0	0	0	0
Portugal	0	12823	0	0	127341
Singapor	0	4599	277	24590	0
South_Af	0	0	0	0	0
Spain	18213	4669	32119	178575	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	22715	163	551	34319	6161
Thailand	0	0	0	0	23252
Trinidad	0	0	0	0	0
Turkey	0	28660	530533	0	7745
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	212703	0
Uruguay	0	0	0	52911	0
Venezuel	315291	0	0	0	0
Yugoslav	0	0	0	0	0

+	19745	19750
Argentin	0	0
Australi	1652034	0
Bahamas	0	0
Belgium	0	85680
Belize	0	0
Brazil	0	0
Canada	20373	15421
Chile	0	136164
China_Ma	33069	1604080
China_Ta	0	0
Colombia	0	0
Costa_Ri	0	0
Domin_Re	0	0
Ecuador	0	0

Egypt	0	0
El_Salva	0	0
France	0	8179
Germany	0	90178
Greece	0	0
Grenada	0	0
Guatemal	0	0
Haiti	0	0
Honduras	0	0
Hong_Kon	0	329488
Hungary	0	0
India	0	1104465
Israel	1819	0
Italy	0	187
Jamaica	0	0
Japan	0	0
Korea	0	0
Malaysia	0	0
Mauritiu	0	0
Mexico	28024978	0
Monaco	0	0
Montserr	0	0
Morocco	0	0
Mozambiq	0	0
Netherla	0	0
New_Zeal	0	0
Nicaragu	0	0
Pakistan	0	78426
Panama	0	0
Peru	34172	0
Philippi	0	0
Poland	0	0
Portugal	0	0
Singapor	0	0
South_Af	215877	0
Spain	0	0
St_Lucia	0	0
Sweden	0	0
Switzerl	0	17637
Thailand	0	0
Trinidad	0	0
Turkey	0	38901
U_Arab_E	0	0
U_Kingdo	0	11603
Uruguay	0	0
Venezuel	0	0
Yugoslav	0	0

;

INCLUDE   C:\GAMS\SURPLUS.TXT

TABLE

SURPLUS(s,k)

	14009	14145	14262	14305	14330	14340	14359
Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000

Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
+	14370	14390	14565	14570	14605	14620	14626
Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000

Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
+	14650	14830	14892	14899	14938	14970	14977
Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000

Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
+	16007	16015	16041	16055	16074	16077	16130
Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000

China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000

Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
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Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000

Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
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Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000

Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
+	16492	16510	16523	16525	16611	16620	16700
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Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000
Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
France	100000	100000	100000	100000	100000	100000	100000
Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000

Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000
+	16720	16813	19621	19628	19701	19710	19745
Argentin	100000	100000	100000	100000	100000	100000	100000
Australi	100000	100000	100000	100000	100000	100000	100000
Bahamas	100000	100000	100000	100000	100000	100000	100000
Belgium	100000	100000	100000	100000	100000	100000	100000
Belize	100000	100000	100000	100000	100000	100000	100000
Brazil	100000	100000	100000	100000	100000	100000	100000
Canada	100000	100000	100000	100000	100000	100000	100000
Chile	100000	100000	100000	100000	100000	100000	100000
China_Ma	100000	100000	100000	100000	100000	100000	100000
China_Ta	100000	100000	100000	100000	100000	100000	100000
Colombia	100000	100000	100000	100000	100000	100000	100000

Costa_Ri	100000	100000	100000	100000	100000	100000	100000
Domin_Re	100000	100000	100000	100000	100000	100000	100000
Ecuador	100000	100000	100000	100000	100000	100000	100000
Egypt	100000	100000	100000	100000	100000	100000	100000
El_Salva	100000	100000	100000	100000	100000	100000	100000
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Germany	100000	100000	100000	100000	100000	100000	100000
Greece	100000	100000	100000	100000	100000	100000	100000
Grenada	100000	100000	100000	100000	100000	100000	100000
Guatemal	100000	100000	100000	100000	100000	100000	100000
Haiti	100000	100000	100000	100000	100000	100000	100000
Honduras	100000	100000	100000	100000	100000	100000	100000
Hong_Kon	100000	100000	100000	100000	100000	100000	100000
Hungary	100000	100000	100000	100000	100000	100000	100000
India	100000	100000	100000	100000	100000	100000	100000
Israel	100000	100000	100000	100000	100000	100000	100000
Italy	100000	100000	100000	100000	100000	100000	100000
Jamaica	100000	100000	100000	100000	100000	100000	100000
Japan	100000	100000	100000	100000	100000	100000	100000
Korea	100000	100000	100000	100000	100000	100000	100000
Malaysia	100000	100000	100000	100000	100000	100000	100000
Mauritiu	100000	100000	100000	100000	100000	100000	100000
Mexico	100000	100000	100000	100000	100000	100000	100000
Monaco	100000	100000	100000	100000	100000	100000	100000
Montserr	100000	100000	100000	100000	100000	100000	100000
Morocco	100000	100000	100000	100000	100000	100000	100000
Mozambiq	100000	100000	100000	100000	100000	100000	100000
Netherla	100000	100000	100000	100000	100000	100000	100000
New_Zeal	100000	100000	100000	100000	100000	100000	100000
Nicaragu	100000	100000	100000	100000	100000	100000	100000
Pakistan	100000	100000	100000	100000	100000	100000	100000
Panama	100000	100000	100000	100000	100000	100000	100000
Peru	100000	100000	100000	100000	100000	100000	100000
Philippi	100000	100000	100000	100000	100000	100000	100000
Poland	100000	100000	100000	100000	100000	100000	100000
Portugal	100000	100000	100000	100000	100000	100000	100000
Singapor	100000	100000	100000	100000	100000	100000	100000
South_Af	100000	100000	100000	100000	100000	100000	100000
Spain	100000	100000	100000	100000	100000	100000	100000
St_Lucia	100000	100000	100000	100000	100000	100000	100000
Sweden	100000	100000	100000	100000	100000	100000	100000
Switzerl	100000	100000	100000	100000	100000	100000	100000
Thailand	100000	100000	100000	100000	100000	100000	100000
Trinidad	100000	100000	100000	100000	100000	100000	100000
Turkey	100000	100000	100000	100000	100000	100000	100000
U_Arab_E	100000	100000	100000	100000	100000	100000	100000
U_Kingdo	100000	100000	100000	100000	100000	100000	100000
Uruguay	100000	100000	100000	100000	100000	100000	100000
Venezuel	100000	100000	100000	100000	100000	100000	100000
Yugoslav	100000	100000	100000	100000	100000	100000	100000

+	19750
Argentin	100000
Australi	100000
Bahamas	100000
Belgium	100000
Belize	100000
Brazil	100000
Canada	100000
Chile	100000
China_Ma	100000
China_Ta	100000
Colombia	100000
Costa_Ri	100000
Domin_Re	100000
Ecuador	100000
Egypt	100000
El_Salva	100000
France	100000
Germany	100000
Greece	100000
Grenada	100000
Guatemal	100000
Haiti	100000
Honduras	100000
Hong_Kon	100000
Hungary	100000
India	100000
Israel	100000
Italy	100000
Jamaica	100000
Japan	100000
Korea	100000
Malaysia	100000
Mauritiu	100000
Mexico	100000
Monaco	100000
Montserr	100000
Morocco	100000
Mozambiq	100000
Netherla	100000
New_Zeal	100000
Nicaragu	100000
Pakistan	100000
Panama	100000
Peru	100000
Philippi	100000
Poland	100000
Portugal	100000
Singapor	100000
South_Af	100000
Spain	100000

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St_Lucia        100000
Sweden          100000
Switzerl        100000
Thailand        100000
Trinidad        100000
Turkey          100000
U_Arab_E        100000
U_Kingdo        100000
Uruguay         100000
Venezuel        100000
Yugoslav        100000

;
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INCLUDE   C:\GAMS\QUARAN.TXT

TABLE

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Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1

Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
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Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
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Malaysia.Korea	1	1	1	1	1	1

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Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1

South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1

+	14359	14370	14390	14565	14570	14605
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
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Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1

Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1

Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1

Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1

Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1
+	14620	14626	14650	14830	14892	14899
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1

Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1

Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1

Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1

+	14938	14970	14977	16007	16015	16041
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
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China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1

France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1

Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
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Peru.Okinawa	1	1	1	1	1	1
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Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1

St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1
+	16055	16074	16077	16130	16140	16175
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1

Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1

Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
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Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1

Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1

U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1
+	16184	16202	16225	16235	16264	16270
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
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China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1

Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1
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Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
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Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
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Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
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Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1

Japan.Korea	1	1	1	. 1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
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Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
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Netherla.Okinawa	1	1	1	1	1	1
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Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
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Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1

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Portugal.Okinawa	1	1	1	1	1	1
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South_Af.Korea	1	1	1	1	1	1
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St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
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Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
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Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
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Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1

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Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1

Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
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Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
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China_Ma.Korea	1	1	1	1	1	1
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China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
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Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
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Costa_Ri.Korea	1	1	1	1	1	1
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Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
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France.Okinawa	1	1	1	1	1	1
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Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
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Grenada.Korea	1	1	1	1	1	1
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Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
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Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1

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Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
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Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
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Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
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Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
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Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1

Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1
+	16492	16510	16523	16525	16611	16620
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
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Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1

Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
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China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
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Egypt.Guam	1	1	1	1	1	1
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Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1

Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan.Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1

Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1

Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1

+	16700	16720	16813	19621	19628	19701
Argentin.Guam	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1

Egypt.Guam	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1

Malaysia.Guam	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1

South_Af.Guam	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1

+	19710	19745	19750
Argentin.Guam	1	1	1
Argentin.Korea	1	1	1
Argentin.Okinawa	1	1	1
Australi.Guam	1	1	1
Australi.Korea	1	1	1
Australi.Okinawa	1	1	1
Bahamas.Guam	1	1	1
Bahamas.Korea	1	1	1
Bahamas.Okinawa	1	1	1
Belgium.Guam	1	1	1

Belgium.Korea	1	1	1
Belgium.Okinawa	1	1	1
Belize.Guam	1	1	1
Belize.Korea	1	1	1
Belize.Okinawa	1	1	1
Brazil.Guam	1	1	1
Brazil.Korea	1	1	1
Brazil.Okinawa	1	1	1
Canada.Guam	1	1	1
Canada.Korea	1	1	1
Canada.Okinawa	1	1	1
Chile.Guam	1	1	1
Chile.Korea	1	1	1
Chile.Okinawa	1	1	1
China_Ma.Guam	1	1	1
China_Ma.Korea	1	1	1
China_Ma.Okinawa	1	1	1
China_Ta.Guam	1	1	1
China_Ta.Korea	1	1	1
China_Ta.Okinawa	1	1	1
Colombia.Guam	1	1	1
Colombia.Korea	1	1	1
Colombia.Okinawa	1	1	1
Costa_Ri.Guam	1	1	1
Costa_Ri.Korea	1	1	1
Costa_Ri.Okinawa	1	1	1
Domin_Re.Guam	1	1	1
Domin_Re.Korea	1	1	1
Domin_Re.Okinawa	1	1	1
Ecuador.Guam	1	1	1
Ecuador.Korea	1	1	1
Ecuador.Okinawa	1	1	1
Egypt.Guam	1	1	1
Egypt.Korea	1	1	1
Egypt.Okinawa	1	1	1
El_Salva.Guam	1	1	1
El_Salva.Korea	1	1	1
El_Salva.Okinawa	1	1	1
France.Guam	1	1	1
France.Korea	1	1	1
France.Okinawa	1	1	1
Germany.Guam	1	1	1
Germany.Korea	1	1	1
Germany.Okinawa	1	1	1
Greece.Guam	1	1	1
Greece.Korea	1	1	1
Greece.Okinawa	1	1	1
Grenada.Guam	1	1	1
Grenada.Korea	1	1	1
Grenada.Okinawa	1	1	1
Guatemal.Guam	1	1	1

Guatemal.Korea	1	1	1
Guatemal.Okinawa	1	1	1
Haiti.Guam	1	1	1
Haiti.Korea	1	1	1
Haiti.Okinawa	1	1	1
Honduras.Guam	1	1	1
Honduras.Korea	1	1	1
Honduras.Okinawa	1	1	1
Hong_Kon.Guam	1	1	1
Hong_Kon.Korea	1	1	1
Hong_Kon.Okinawa	1	1	1
Hungary.Guam	1	1	1
Hungary.Korea	1	1	1
Hungary.Okinawa	1	1	1
India.Guam	1	1	1
India.Korea	1	1	1
India.Okinawa	1	1	1
Israel.Guam	1	1	1
Israel.Korea	1	1	1
Israel.Okinawa	1	1	1
Italy.Guam	1	1	1
Italy.Korea	1	1	1
Italy.Okinawa	-1	1	1
Jamaica.Guam	1	1	1
Jamaica.Korea	1	1	1
Jamaica.Okinawa	1	1	1
Japan.Guam	1	1	1
Japan.Korea	1	1	1
Japan.Okinawa	1	1	1
Korea.Guam	1	1	1
Korea.Korea	1	1	1
Korea.Okinawa	1	1	1
Malaysia.Guam	1	1	1
Malaysia.Korea	1	1	1
Malaysia.Okinawa	1	1	1
Mauritiu.Guam	1	1	1
Mauritiu.Korea	1	1	1
Mauritiu.Okinawa	1	1	1
Mexico.Guam	1	1	1
Mexico.Korea	1	1	1
Mexico.Okinawa	1	1	1
Monaco.Guam	1	1	1
Monaco.Korea	1	1	1
Monaco.Okinawa	1	1	1
Montserr.Guam	1	1	1
Montserr.Korea	1	1	1
Montserr.Okinawa	1	1	1
Morocco.Guam	1	1	1
Morocco.Korea	1	1	1
Morocco.Okinawa	1	1	1
Mozambiq.Guam	1	1	1

Mozambiq.Korea	1	1	1
Mozambiq.Okinawa	1	1	1
Netherla.Guam	1	1	1
Netherla.Korea	1	1	1
Netherla.Okinawa	1	1	1
New_Zeal.Guam	1	1	1
New_Zeal.Korea	1	1	1
New_Zeal.Okinawa	1	1	1
Nicaragu.Guam	1	1	1
Nicaragu.Korea	1	1	1
Nicaragu.Okinawa	1	1	1
Pakistan,Guam	1	1	1
Pakistan.Korea	1	1	1
Pakistan.Okinawa	1	1	1
Panama.Guam	1	1	1
Panama.Korea	1	1	1
Panama.Okinawa	1	1	1
Peru.Guam	1	1	1
Peru.Korea	1	1	1
Peru.Okinawa	1	1	1
Philippi.Guam	1	1	1
Philippi.Korea	1	1	1
Philippi.Okinawa	1	1	1
Poland.Guam	1	1	1
Poland.Korea	1	1	1
Poland.Okinawa	1	1	1
Portugal.Guam	1	1	1
Portugal.Korea	1	1	1
Portugal.Okinawa	1	1	1
Singapor.Guam	1	1	1
Singapor.Korea	1	1	1
Singapor.Okinawa	1	1	1
South_Af.Guam	1	1	1
South_Af.Korea	1	1	1
South_Af.Okinawa	1	1	1
Spain.Guam	1	1	1
Spain.Korea	1	1	1
Spain.Okinawa	1	1	1
St_Lucia.Guam	1	1	1
St_Lucia.Korea	1	1	1
St_Lucia.Okinawa	1	1	1
Sweden.Guam	1	1	1
Sweden.Korea	1	1	1
Sweden.Okinawa	1	1	1
Switzerl.Guam	1	1	1
Switzerl.Korea	1	1	1
Switzerl.Okinawa	1	1	1
Thailand.Guam	1	1	1
Thailand.Korea	1	1	1
Thailand.Okinawa	1	1	1
Trinidad.Guam	1	1	1

Trinidad.Korea	1	1	1
Trinidad.Okinawa	1	1	1
Turkey.Guam	1	1	1
Turkey.Korea	1	1	1
Turkey.Okinawa	1	1	1
U_Arab_E.Guam	1	1	1
U_Arab_E.Korea	1	1	1
U_Arab_E.Okinawa	1	1	1
U_Kingdo.Guam	1	1	1
U_Kingdo.Korea	1	1	1
U_Kingdo.Okinawa	1	1	1
Uruguay.Guam	1	1	1
Uruguay.Korea	1	1	1
Uruguay.Okinawa	1	1	1
Venezuel.Guam	1	1	1
Venezuel.Korea	1	1	1
Venezuel.Okinawa	1	1	1
Yugoslav.Guam	1	1	1
Yugoslav.Korea	1	1	1
Yugoslav.Okinawa	1	1	1

;

INCLUDE   C:\GAMS\DEMAND.TXT

TABLE

DEMAND(k,d)

	GUAM	KOREA	OKINAWA
14009	510352	508514	0
14145	105294	0	0
14262	47040	0	0
14305	600	0	0
14330	0	360	0
14340	144	144	0
14359	190	0	0
14370	570	0	0
14390	55620	54000	56520
14565	12150	1820	0
14570	73080	61285	58310
14605	10480	920	10520
14620	170070	3300	600
14626	343785	1261862	320040
14650	39320	35850	0
14830	0	0	100
14892	44350	23750	0
14899	29750	0	0
14938	11052	0	0
14970	69525	60085	0
14977	276800	7924	482400
16007	5420	440	10020
16015	16170	0	7800
16041	480	0	0
16055	97060	12200	42200
16074	227796	142964	0
16077	320260	202185	0
16130	39940	5020	48220
16140	154346	139400	135690
16175	26600	0	0
16184	167430	0	11400
16202	30280	0	14520
16225	220	0	0
16235	32980	340	0
16264	0	350	0
16270	320	0	0
16280	990	0	0
16287	254928	392730	473010
16362	20	0	0
16380	175	0	0
16385	564546	413830	600
16470	5670	0	2780
16492	2910	0	0
16510	11100	290	0

16523	30200	0	450
16525	1031150	1320850	0
16611	8046	2008	0
16620	11890	275	0
16700	15270	0	0
16720	25010	420	14445
16813	222050	0	0
19621	200	0	0
19628	5040	0	0
19701	246	0	0
19710	1640	0	0
19745	192	0	0
19750	240	0	0

;

INCLUDE   C:\GAMS\COST.TXT

TABLE

COSTS(s,k)

	14009	14145	14262	14305	14330	14340	14359
Argentin	0.19	0.25	0	0	0	0	0
Australi	0.42	0.46	0	0	0	0	2.58
Bahamas	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	0	0
Belize	0	0	0	0	0	0	0
Brazil	0.3	0	0.13	0.68	0.96	0	1.09
Canada	0.15	0.22	0	0.2	0.63	0.24	0.5
Chile	0.16	0.15	0	0.54	2.92	1.7	0
China_Ma	0	0	0	0	0.76	0	0
China_Ta	0	0	0	0	0.41	0	0
Colombia	0	0	0.13	0	0.1	0	0.79
Costa_Ri	0	0	0.14	0.3	0.29	0	0
Domin_Re	0	0	0.16	0.47	0.1	0	0
Ecuador	0	0	0.12	0	0	0	0
Egypt	0	0	0	0	0	0	0
El_Salva	0	0	0	0	0.33	0	0
France	0.34	0	0	1.06	2.46	0	1.43
Germany	0	0	0	0	0.39	0	1.13
Greece	0	0	0	0.32	0	0	1.03
Grenada	0.39	0.23	0	0	0	0	0
Guatemal	0	0	0.15	0.45	0	0	0
Haiti	0	0	0	0	0.6	0	0
Honduras	0	0	0.15	0	0.1	0	0
Hong_Kon	0	0	0	0	0.39	0	0
Hungary	0.22	0.2	0	0.54	0	0	0.22
India	0	0	0	0	0.35	0	0
Israel	0	0	0	0	0.08	0	1.75
Italy	0	0.25	0	2.33	0	0	0.54
Jamaica	0	0	0.15	0	0.52	0	0
Japan	0	1.23	0	0	0.38	0	0
Korea	0	0.97	0	0	0	1.42	0
Malaysia	0	0	0	0	0.36	0	0
Mauritiu	0	0	0	0	0	0	0
Mexico	0	0.32	0.11	0.11	0.14	0	0.23
Monaco	0	0	0	0	0	0	0
Montserr	0	0	0	0	0	0	0
Morocco	0	0	0	0	0.17	0	0
Mozambiq	0	0	0	0	0	0	0
Netherla	0.21	0	0	0.41	0.36	0	0
New_Zeal	0.4	0.63	0	0	0	0	0
Nicaragu	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	1.15
Panama	0	0	0.13	0	0	0	0
Peru	0	0	0	0	1	0	0

Philippi	0	0	0	1.31	0.41	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0.37	0	0	1.03
Singapor	0	0	0	0	0.38	4.15	2.46
South_Af	0.32	0.35	0	0	0	0	0
Spain	0	0	0	1.14	0	0	0.69
St_Lucia	0.14	0.14	0.11	0	0	0	0
Sweden	0	0	0	0	0	1.23	0
Switzerl	0	0	0	0.77	0	0	0
Thailand	0	0	0	1.7	0.58	0	0.98
Trinidad	0.55	0	0	0	0.8	0	0
Turkey	0	0	0	0	0	0	0.5
U_Arab_E	0	0	0	0	0	0	0.52
U_Kingdo	0.31	0	0	0	0.7	0	0.6
Uruguay	0	0	0	0	0	0	0
Venezuel	0	0	0.14	0.45	0.27	0	0
Yugoslav	0	0	0	0.51	0	0	0
+	14370	14390	14565	14570	14605	14620	14626
Argentin	0	0.41	0	0	0	0	0.41
Australi	0	0	2.68	0.41	0	0	0.48
Bahamas	0	0.04	0	0.03	0.07	0	0.04
Belgium	0	0	0	0	0	0	0
Belize	0	0	0	0	0.21	0	0
Brazil	0	0	0	0	0	0.67	0.65
Canada	0.54	0.84	0	0	0	0	0.78
Chile	0	0	0.31	0.22	0.21	0.96	0
China_Ma	0.48	0.89	0	1.35	0	0.7	0
China_Ta	1.21	0	0	0.87	0	0.65	0
Colombia	0.81	0	0	1.13	0.16	0.64	0.35
Costa_Ri	0.21	0	0	0.38	0.22	0.43	0
Domin_Re	0	0.17	0	0.14	0.13	0.41	0.13
Ecuador	0	0	0	0.24	0.12	0.13	0
Egypt	0.54	0	0	0	0	0	0.33
El_Salva	0	0	0	0	0.38	1.17	0
France	0	0	0	0	0	1.61	0
Germany	0	0	0	0.3	0	0	7.49
Greece	0	0	0	0.18	0	0	0
Grenada	0	0	0	0	0	0.49	0
Guatemal	0.46	0	0	0.82	0.	0.22	0
Haiti	0.63	0	0	0.33	0.28	0	0
Honduras	0	0	0	0.12	0.11	0.25	0
Hong_Kon	0.63	0	0	1.59	0	0	0
Hungary	0	0	0	0	0	0	0
India	0.47	0	0	0.65	0	0.51	0
Israel	0.87	0.33	0	0.91	0	0	0.29
Italy	3.54	0	0.54	0.39	0	0	0.67
Jamaica	0	0.08	0	0	0	0.53	0.13
Japan	0.85	0	0	1.33	0	0	6.19
Korea	3.1	0	0	0	0	0	0
Malaysia	1.27	0	0	0.82	2.47	0	0

Mauritiu	0	0	0	0	0	0	0
Mexico	0.69	0.42	0	0.14	0.1	0.39	0.26
Monaco	0	0	0	0	0.92	0	0
Montserr	0	0	0	0	0	0	0
Morocco	0	0	0	0	0	0	0.3
Mozambiq	0	0	0	0	0	0	0
Netherla	0	0	0	0	0	0	0.5
New_Zeal	0	0	0.58	0	0	0	0
Nicaragu	0	0	0	0	0.22	0	0
Pakistan	0.42	0	0	1.25	0	0	0
Panama	0	0	0	0	0	0	0
Peru	0	0	0	0	0	0.04	0
Philippi	0	0	0	0	0	1.05	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0
Singapor	0.7	0	0	1.66	2.16	.54	4.8
South_Af	0	0	0	0	0	0	0
Spain	2.76	0	0	0.18	0	0	0.37
St_Lucia	0	0	0	0	0	0	0
Sweden	0.25	0	0	0	0	0	0
Switzerl	0	0	0	0	0	0	0
Thailand	2.99	0	0	0.48	0	2.31	0
Trinidad	0	0	0	0	0	1.66	0
Turkey	0.69	0	0	0.19	2.52	0	0
U_Arab_E	0.33	0	0	0.7	0	0	18.56
U_Kingdo	0.53	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0	0
Venezuel	0	0	0	0.34	0.28	0.43	0
Yugoslav	0	0	0	0	0	0	0
+	14650	14830	14892	14899	14938	14970	14977
Argentin	0.68	0	0	0	0.42	0	0
Australi	0	0	0	2.27	1.52	0	0
Bahamas	0	0.36	0	0	0	0	0.04
Belgium	0	0.25	0	0	0	0	0
Belize	0	0.27	0	2.05	0	0	0
Brazil	0	0.67	0	0	0	0	0.06
Canada	0.32	0	0.41	0.92	0.52	0	0
Chile	0.29	0	0.29	1.53	0.48	0	0.12
China_Ma	0	0	0	0.85	0	0	0
China_Ta	3.27	0	2.65	1.24	0	0	0
Colombia	0.35	0.46	0	0.21	1.28	0	0
Costa_Ri	0	0.3	0	0.22	0.79	0.37	0.14
Domin_Re	0	0.25	0	0.1	0.14	0.18	0.06
Ecuador	0	0.55	0	0	0.37	0	0
Egypt	0	0	0	0	0	0	0
El_Salva	0	0	0	0	0.71	0	0.07
France	0	0	0.24	0	2.17	0	0
Germany	0	0.47	0.71	7.04	0.52	0	0
Greece	0.21	0	0	0	0	0	0.03
Grenada	0	0	0.44	0	0	0	0

Guatemal	0	1.11	0	0.37	0.33	0	0.05
Haiti	0.29	0	0.3	0	0	0	0
Honduras	0	0	0	0.14	0.26	0	0.07
Hong_Kon	0	0	0.38	0.15	0	2.07	0
Hungary	0	0	0.58	0	0.49	0	0
India	0	0	0	0	0	0	0
Israel	0	0	0.48	0	0.45	0	0
Italy	0	0	0	0	3.7	0	0
Jamaica	0	0.54	0	0	0	0.31	0
Japan	0	0	1.11	0	0.35	0.32	0
Korea	0	0	0	0	0	0	0.21
Malaysia	0	0	0.87	0.28	2.51	0	0
Mauritiu	0	0	0	0	0	0	0
Mexico	0.65	0.22	0	0.1	0.42	0.17	0.08
Monaco	0	0	0	0	0.36	0	0.11
Montserr	0	0	0	0	0	0	0
Morocco	0	0	0	0	0	0.45	0.1
Mozambiq	0	0	0	0	0	0	0.04
Netherla	0	0	0	0	0.5	0	0
New_Zeal	0.89	0	0.72	1.37	0	0	0
Nicaragu	0	0	0	0	0	0	0.21
Pakistan	0	0	0.53	0	0	0	0
Panama	0	0	0	0.15	0	0	0.13
Peru	1.11	0.31	0	0.31	0	0	0
Philippi	0	0	0	0.31	0.57	0	0
Poland	0	0	0	0	0.47	0	0
Portugal	0	0	0	0	0	0	0
Singapor	0.9	0	0	0.3	0	0	0
South_Af	0	0	0	0	0	0	0
Spain	0.57	0.43	0	0.17	0.69	0.59	0
St_Lucia	0.24	0	0.27	0	0	0	0
Sweden	0	0	0	0	9.91	0	0
Switzerl	0.32	0	0.29	0	0	0	0
Thailand	0	0.17	0.35	0.6	0	0	0
Trinidad	0	2.62	0	0	0	0	0
Turkey	0	1.61	0	0	0	0	0
U_Arab_E	0	0	0.55	0	0	0	0
U_Kingdo	0	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0	0
Venezuel	0	0	0	0.21	0.63	0	0
Yugoslav	0	0	0	0	0.52	0	0
+	16007	16015	16041	16055	16074	16077	16130
Argentin	0	0.56	0	0.26	0	0	0
Australi	0	0.57	0	0	0	0	0
Bahamas	0	0	0	0	0	0	0
Belgium	0	0	0	0	0.	0.36	0.33
Belize	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
Canada	0.98	1.61	0.07	0.17	0.11	0.12	0.29
Chile	0.38	0.7	0	0	0	0.73	0.11

China_Ma	0	0.58	1.1	0	0	0.65	0.77
China_Ta	0	0	0	0	0	0.14	0
Colombia	0.34	1.33	0	0.33	0	0	0
Costa_Ri	0	0.78	0	0.12	0.12	1.02	0
Domin_Re	0	0.16	0	0	0	0	0
Ecuador	0	0.77	0	0.2	0	0.5	0.13
Egypt	0.9	0	0	0	0	0	0
El_Salva	0	0	0	0.27	0	0	0
France	2.18	2.96	0	0.65	0.37	0	0.28
Germany	0	1.35	2.04	5.38	0	0.2	0
Greece	0	0	0	0.35	0	2.27	0
Grenada	0	0	0	0	0	0	0
Guatemal	0	0.41	0	0.32	0.4	0.21	0.3
Haiti	0	0	0	0	0	0	0
Honduras	0	0	0	0	0	0	0
Hong_Kon	0	3.78	0	0	0.19	0	0
Hungary	0	1.05	0	0	0	0	0.32
India	0	0	0	0	0	0	0
Israel	0	0.71	0	0.51	0.4	0	0.44
Italy	40.77	0	0	0	0	0.73	0
Jamaica	0	0	0	0	0	0.55	0
Japan	0	0	0.11	0	3.25	1.88	0
Korea	0	0	0	0	0	0	0
Malaysia	0	0	0	0	0	0	0
Mauritiu	0	0.64	0	0.14	0.08	0	0.28
Mexico	0.26	0.62	0.2	0.29	0.11	0.12	0.34
Monaco	0	0.74	0	0.3	0	0.12	0.31
Montserr	0	0.79	0	0.49	0	0	0
Morocco	0	0	0	0	0	0	0
Mozambiq	0	0	0	0	0	0	0
Netherla	0	2.15	0	0	0.36	0.12	0.17
New_Zeal	0	0.58	0	0	0	0	0
Nicaragu	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0
Panama	0	0.89	0	0	0	0	0
Peru	0.14	0.55	0	1.16	0	0.88	0
Philippi	0	0	0.87	0.7	0	0	0
Poland	0	0	0.53	0	0	0	0.26
Portugal	0	0	0	0	0	0	0
Singapor	0	0	0	0.32	0	0	0
South_Af	0	0	0	0	0	2.3	0.35
Spain	0	0	0	0.3	0	0	0.2
St_Lucia	0	0	0	0	0	0	0
Sweden	0	0	0	0.7	0	0	0.07
Switzerl	0	0	0	0	6.46	0	0
Thailand	0	1.29	0	0	0	0.68	0
Trinidad	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0.84	0
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0.44	214.3	1.81	0.27	0
Uruguay	0	0	0	0	0	0	0

Venezuel	0	0.52	0	0	0	0.1	0
Yugoslav	0	0	0	0	0	0	0
+	16140	16175	16184	16202	16225	16235	16264
Argentin	0	0	0	0.28	0	0.57	0
Australi	0	0	0.19	0.41	0	0.32	0
Bahamas	0	0	0.12	0	0	0	0.37
Belgium	0	0	0.91	0.24	0	0	0
Belize	0	0	0.17	0	0	0	0
Brazil	0	0	0	0	0	0.54	0
Canada	0.13	0	0.42	0.29	0.71	0.44	0.29
Chile	0.08	0	0.83	0.24	0	0.75	0
China_Ma	0	0	0	0.31	0	0.24	0
China_Ta	0	0	0	1.02	0	0.32	0
Colombia	0	0	0	0	0	0.17	0
Costa_Ri	0.82	0.18	0.1	0.77	0.18	0	0.11
Domin_Re	0.24	0.15	0.1	0.29	0.15	0	0.13
Ecuador	0	0	0.31	0.16	1.06	0	0
Egypt	0	0	0	0	0	0.21	0
El_Salva	0	0	0.07	0	0	0.49	0
France	0	0.11	0	0	0	0.44	0
Germany	0	0	0	0.22	0	0	0
Greece	0	0	0.32	0	0	0	0.07
Grenada	0	0	0	0	0	0	0.42
Guatemal	0.08	0	0.07	0.76	0	0.35	0
Haiti	0	0	0	0	0.23	0	0.15
Honduras	0	0.08	0.09	0	0.15	0	0.1
Hong_Kon	0.19	0	0	0	0	0	0
Hungary	0	0	0	0.32	0	0	0
India	0.17	0	0	0	0	0.45	0
Israel	0.26	0	0	0.44	0	0	0
Italy	0	0	0.55	0	0	0	0.09
Jamaica	0	0	0.79	0.37	0.17	0	0.24
Japan	0	0	4.2	2.2	0	0.64	0
Korea	0	0	4.07	0	0	1.36	0
Malaysia	0	0	0	0	0	0	0
Mauritiu	0	0	0.32	0.11	0.39	0	0
Mexico	0.14	0.28	0.19	0.21	0.33	0.	0.23
Monaco	4.71	0	0	0	0	0	0.35
Montserr	0	0	0	0	0	0.41	0.14
Morocco	0	0	0	0	0	0	0
Mozambiq	0	0	0.02	0	0	0.42	0.13
Netherla	0	0	0.63	0.98	1.96	0.37	0
New_Zeal	0	0	0.93	0.26	0	0	0
Nicaragu	0	0	0	0	0	0	0.08
Pakistan	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0.1
Peru	0	0	0	0.57	0	0.51	0
Philippi	1.85	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0

Singapor	0	0	0	0	0	0.31	0
South_Af	0	0	0	0	0	0	0
Spain	0	0	0.39	0	0	0.9	0.08
St_Lucia	0	0	0	0	0	0	0.33
Sweden	0	0	0.57	0	0	0	0
Switzerl	0	0	0	0	0	0.54	0
Thailand	0	0	0	0.82	0.64	0	0
Trinidad	0	0	0	0	0	0	0.16
Turkey	0	0	0	0	1.06	0	0
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0	0.37	0	4.56	0
Uruguay	0	0	0	0	0	0.35	0
Venezuel	0	0	0	0	0	0.47	0
Yugoslav	0	0	0	0.44	0	0	0
+	16270	16280	16287	16362	16380	16385	16470
Argentin	0	0	0	0	0	0.1	0.44
Australi	0	0	0	0	0	0.17	0.22
Bahamas	0	0	0	0	0	0	0
Belgium	2	0	1.24	2.51	0	0.45	0.38
Belize	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0.14	0
Canada	0.05	0.39	0.21	0.81	0.26	0.14	0.32
Chile	0	0.93	0.92	0.62	87.14	0.11	0.63
China_Ma	0	0.29	0.4	0	0.81	0.33	0.71
China_Ta	0	0.57	1.39	1.27	0	0.31	0.99
Colombia	0	0	0	0	0	0	0.85
Costa_Ri	0.53	0.3	1.81	0	0.22	0.13	0.84
Domin_Re	0.13	0.71	0	0	0.29	103	0.45
Ecuador	0	0	0	0	0	0	0.52
Egypt	0	0	0	0	0.79	0	0.45
El_Salva	0	0	0	0	0.3	0.12	0.44
France	0	0	0	2.32	0	0.51	0.78
Germany	0	0	0.78	2.02	0	0	0.5
Greece	0	0	0	0	0	0	0
Grenada	0	0	0	0	0	0	0
Guatemal	0.13	0.08	7.16	0.23	0	0	0.37
Haiti	0	0	0	0	0	0.18	0.36
Honduras	0	0.72	0	0	0.34	0.09	0.82
Hong_Kon	0	0	0	1.06	0	0.41	0.32
Hungary	0	0.79	0	2	0	0	0.48
India	0	0	0	0	0	0	0.41
Israel	0	0	0	0	0	0.51	0
Italy	1.43	0	2.46	1.57	0	0.84	0.82
Jamaica	0.15	6.12	0	0	0.21	0	0
Japan	1.42	0	0	2.15	0	1.41	0.37
Korea	2.84	0	0	1.22	0	2.01	0
Malaysia	0	0	0	0.85	0	0.27	70257
Mauritiu	0.05	0	0	0	0	0.38	1.32
Mexico	0.25	0.23	0.16	5.16	0.14	0.22	1
Monaco	0.22	0	0	0	0	0.44	0.88

Montserr	0	0	0	0	0	0.06	0
Morocco	0	0	0	7.65	0	0.59	0
Mozambiq	0	0	0	0	0	0.35	0
Netherla	1.36	0	1.37	3.1	0	0.36	1.22
New_Zeal	0	1.53	0	2.64	0	0.18	0.4
Nicaragu	0	0	0	0	0	0.1	0
Pakistan	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0.15	0.3
Peru	0	0	0.28	0	0	0	0.38
Philippi	0	0	0	0	1.07	0.28	0.43
Poland	0	0	0	0.82	0	0	0.2
Portugal	0	0	0	5	0	0	0.46
Singapor	0	0	0	2.34	0	0	0
South_Af	0	0	0	0	0	0	0
Spain	0	0	0	1.29	0	0.17	0.34
St_Lucia	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0.36
Switzerl	0	0	0	5.52	0	0	0
Thailand	0	0.54	0	0.91	0	0.78	0.27
Trinidad	0.16	0	0	0	0	0	0
Turkey	0	0	0	2.17	0	0	0.4
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0	0	0	0.68	0.39
Uruguay	0	0	0	0	0	0.12	0
Venezuel	0	0	0	0	0	0.2	0.63
Yugoslav	0	0	0	4.54	0	0	0.4
+	16492	16510	16523	16525	16611	16620	16700
Argentin	0	0.32	0	0	0	0	0.28
Australi	2.11	0	0	0	0	0	0
Bahamas	0.15	0	0	0	0	0	0
Belgium	2.34	0	0	0.88	0	0	0.27
Belize	0	0	0	0.15	0	0	0
Brazil	0	0.42	0	0.32	0	0	0
Canada	0.7	0.11	0.04	0.09	0.14	0.1	0.32
Chile	0	0	0.14	0	0	0	0
China_Ma	0.68	0.62	0.11	0.15	0.45	0.43	0
China_Ta	1.68	0.83	0	0.61	1.13	1.6	0
Colombia	0	0.48	0.16	0.61	0	0	0
Costa_Ri	0.27	0.25	0.16	0.3	0	0	0
Domin_Re	0.8	0.1	0.18	0.09	0	0	0
Ecuador	0	0	0.09	0	0	0	0
Egypt	0	0	0	0.33	0	0	1.44
El_Salva	0	0	0.09	0	0	0	0
France	1.13	0	0	0.58	0	0.42	0.24
Germany	0	0	0	3.48	1.07	0	0
Greece	0	0	0	0	0	0	0
Grenada	0.8	0	3.95	0	0	0	0
Guatemal	0	0	0.1	0	0	0	0
Haiti	0	0	0	0	0	0	0
Honduras	0	0	0.12	0	0	0	0

111

Hong_Kon	1.13	0.75	0	0	0.54	0.16	0
Hungary	0	0	0	0.3	0	0	0
India	0.48	0	0	0	0	0	0
Israel	0	0	0	0	0	0	0
Italy	2.39	0	0	0	2	0	0
Jamaica	0.93	0.77	2.72	0.45	0	0	1.05
Japan	0	0.55	0.13	.78	1.1	2.97	0
Korea	0	1.5	0	0	1.95	0	0
Malaysia	0	0	0	0	0	0	0
Mauritiu	0	0	0	0	0.28	0	0
Mexico	0.5	0	0.13	0.44	0	0.17	0.24
Monaco	0	0	0	0	0.21	0	0
Montserr	0.76	0	0	0	0	0	0
Morocco	0	0	0	0	0	0	0
Mozambiq	0	0	0	0	0	0	0
Netherla	1.14	0	0	0.64	0	0	0.29
New_Zeal	1.15	0	0	0	0	0	0
Nicaragu	0	0	0.22	0	0	0	0
Pakistan	0.5	0	0	0	0	0	0
Panama	0	0	0.13	0	0	0	0
Peru	0	0.73	0	0.52	0	0	0
Philippi	0	0.63	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0
Singapor	0	0.65	0	0	0	0	0
South_Af	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0
St_Lucia	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerl	0	0	0	6.21	0	0	0
Thailand	0.85	0	0	0	0	0	0
Trinidad	1.67	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0	0.4	0	0	0
Uruguay	0	0.68	0	0	0	0	0.3
Venezuel	0	0	0.17	0	0	0	0
Yugoslav	0	0	0	0	0	0	0
+	16720	16813	19621	19628	9701	19710	19745
Argentin	0	0.28	0	0	0	0.2	0
Australi	0	0	0	0	0	0	1.97
Bahamas	0.12	0.11	0	0	0	0	0
Belgium	0	0.79	0	2.63	0	0	0
Belize	0.13	0	0	0	0	0	0
Brazil	0.3	0.76	0	0	0.59	0	0
Canada	0.21	0.57	1.01	0.61	1.28	1.86	3.92
Chile	0	0.26	5.5	0	0.97	1.02	0
China_Ma	0.72	0	1.35	1.25	0.78	0.71	2.11
China_Ta	0	0	0	0.77	0	1.07	0
Colombia	0	0.69	0	0	0.7	0	0

Costa_Ri	0.15	0.25	0	0	0	0	0
Domin_Re	0.13	0.18	0	0	0.69	0	0
Ecuador	0	0.34	0	0	1.15	0	0
Egypt	0	0	0	0	0	0	0
El_Salva	0.22	0	0	0	0	0	0
France	0	0.96	7.38	5.35	0	1.63	0
Germany	0	0.46	3.36	1.67	0	0	0
Greece	0	0	0	2.68	0	0	0
Grenada	0	0	0	0	0	0	0
Guatemal	0.7	0.25	0	0	3.13	0	0
Haiti	0	0	0	0	0	0	0
Honduras	0.09	0.07	0	0	0	0	0
Hong_Kon	0	0	1.68	0.91	0	1.28	0
Hungary	0	0.14	0	0	0	0	0
India	0	0	0	0	2.14	0	0
Israel	0	0.2	0.3	1.77	0	0	5.66
Italy	0	0.35	3.5	10.34	0	1.16	0
Jamaica	0.27	0	0	0	0	0	0
Japan	0	4.61	0.2	0	0	1.12	0
Korea	0	0	0	1.29	0	1.33	0
Malaysia	0	0	0	0	0.3	0	0
Mauritiu	0.31	0.77	0	0	0	0	0
Mexico	0.29	0.35	0	1.17	0	0	1.5
Monaco	0.29	0.24	0	0	0	0	0
Montserr	0	0.13	0	0	0	0	0
Morocco	0	0.54	0	0	0	0	0
Mozambiq	0.34	0.09	0	0	0	0	0
Netherla	0.93	0.67	0	0	1.37	1.04	0
New_Zeal	0.21	1.03	0	0	0	0	0
Nicaragu	0.09	0	0	0	0	0	0
Pakistan	0	0	2.66	2.86	0	0	0
Panama	0.1	0	0	0	0	0	0
Peru	0	0	0	0	1.15	0	0.8
Philippi	0	0	0	0	0.44	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	1.9	0	0	0.97	0
Singapor	0	0	1.6	6.49	0.38	0	0
South_Af	0	0	0	0	0	0	2.06
Spain	0	0.72	2.95	0	1.64	1.02	0
St_Lucia	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerl	0	0.7	9.49	11.43	1.06	1.98	0
Thailand	0	0	0	0	0	0.4	0
Trinidad	0.15	0	0	0	0	0	0
Turkey	0	0	1.17	1.99	0	0.85	0
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0	0	1.05	0	0
Uruguay	0	0	0	0	0.91	0	0
Venezuel	0	0.34	0	0	0	0	0
Yugoslav	0	0	0	0	0	0	0

+	19750
Argentin	0
Australi	0
Bahamas	0
Belgium	0.84
Belize	0
Brazil	0
Canada	1.44
Chile	0.57
China_Ma	1.46
China_Ta	0
Colombia	0
Costa_Ri	0
Domin_Re	0
Ecuador	0
Egypt	0
El_Salva	0
France	2.12
Germany	0.33
Greece	0
Grenada	0
Guatemal	0
Haiti	0
Honduras	0
Hong_Kon	1.34
Hungary	0
India	1.5
Israel	0
Italy	7.51
Jamaica	0
Japan	0
Korea	0
Malaysia	0
Mauritiu	0
Mexico	0
Monaco	0
Montserr	0
Morocco	0
Mozambiq	0
Netherla	0
New_Zeal	0
Nicaragu	0
Pakistan	1.49
Panama	0
Peru	0
Philippi	0
Poland	0
Portugal	0
Singapor	0
South_Af	0
Spain	0

```
St_Lucia      0
Sweden        0
Switzerl      0.59
Thailand      0
Trinidad      0
Turkey        1.43
U_Arab_E      0
U_Kingdo      1.69
Uruguay       0
Venezuel      0
Yugoslav      0

;
```

INCLUDE   C:\GAMS\TRANS.TXT

TABLE

TRANSPORT(s,k)

	Guam	Korea	Okinawa
Argentin	1	1	1
Australi	1	1	1
Bahamas	1	1	1
Belgium	1	1	1
Belize	1	1	1
Brazil	1	1	1
Canada	1	1	1
Chile	1	1	1
China_Ma	1	1	1
China_Ta	1	1	1
Colombia	1	1	1
Costa_Ri	1	1	1
Domin_Re	1	1	1
Ecuador	1	1	1
Egypt	1	1	1
El_Salva	1	1	1
France	1	1	1
Germany	1	1	1
Greece	1	1	1
Grenada	1	1	1
Guatemal	1	1	1
Haiti	1	1	1
Honduras	1	1	1
Hong_Kon	1	1	1
Hungary	1	1	1
India	1	1	1
Israel	1	1	1
Italy	1	1	1
Jamaica	1	1	1
Japan	1	1	1
Korea	1	1	1
Malaysia	1	1	1
Mauritiu	1	1	1
Mexico	1	1	1
Monaco	1	1	1
Montserr	1	1	1
Morocco	1	1	1
Mozambiq	1	1	1
Netherla	1	1	1
New_Zeal	1	1	1
Nicaragu	1	1	1
Pakistan	1	1	1
Panama	1	1	1
Peru	1	1	1

Philippi	1	1	1
Poland	1	1	1
Portugal	1	1	1
Singapor	1	1	1
South_Af	1	1	1
Spain	1	1	1
St_Lucia	1	1	1
Sweden	1	1	1
Switzerl	1	1	1
Thailand	1	1	1
Trinidad	1	1	1
Turkey	1	1	1
U_Arab_E	1	1	1
U_Kingdo	1	1	1
Uruguay	1	1	1
Venezuel	1	1	1
Yugoslav	1	1	1

;

1. OKINAWA MODEL

```
*------------------GAMS AND DOLLAR CONTROL OPTIONS---------------------------------------

$OFFUPPER    OFFSYMLIST    OFFSYMXREF

OPTIONS
        LIMCOL = 0,      LIMROW = 0,       SOLPRINT = OFF,  DECIMALS = 2
        RESLIM = 5000,  ITERLIM = 2000,   OPTCR = 0.1,      SEED = 3141;


*------------------- ------------------------------------------------------------------------


$INCLUDE V_O_SET.TXT
$INCLUDE V_O_WT.TXT
$INCLUDE V_O_CUBE.TXT
$INCLUDE V_O_DEM.TXT
$INCLUDE V_POSS.TXT


*-----------------------------------------------------------------------------------------------


POSITIVE VARIABLES
        X(v,d,k,w)      AMOUNT OF k TO PUT IN VAN TYPE v IN WEEK w  TO
                        DESTINATION d ;

INTEGER VARIABLES
        Y(v,d,w)        NUMBER OF VAN TYPE v NEEDED IN WEEK w FOR  DESTINATION d;

VARIABLES
        TOTVANS         TOTAL NUMBER OF VANS NEEDED;

EQUATIONS
        OBJ                     TOTAL VANS NEEDED
        WT(v,w,d)               WEIGHT CONSTRAINTS
        CB(v,w,d)               CUBIC FEET CONSTRAINTS
        ORDER(k,d,w)            DEMAND CONSTRAINTS
        NUMVAN(v,w,d)           NUMBER OF VAN TYPE v NEEDED
        TOTAL                   TOTAL DEMAND EQUALS TOTAL PACKED;


*-----------------------------------------------------------------------------------------------


OBJ..                   TOTVANS =E= SUM((v,w,d), Y(v,d,w));
WT(v,w,d)..             SUM((k), X(v,d,k,w) * WEIGHT(k) * POSSIBLE(k,v)) =L= 55400 * Y(v,d,w);
CB(v,w,d)..             SUM((k), X(v,d,k,w) * CUBES(k) * POSSIBLE(k,v))   =L= 2004 * Y(v,d,w);
ORDER(k,d,w)..          SUM((v), X(v,d,k,w) * POSSIBLE(k,v)) =G= DEMAND(k,d,w);
NUMVAN(v,w,d)..         SUM((k), X(v,d,k,w) * WEIGHT(k)) =L= Y(v,d,w) * 55000;
TOTAL..                 SUM((k,v,w,d), X(v,d,k,w)) =E= SUM((k,d,w), DEMAND(k,d,w));


*-----------------------------------------------------------------------------------------------
```

```
MODEL VANS /ALL/
SOLVE VANS USING MIP MINIMIZING TOTVANS;
DISPLAY TOTVANS.L, X.L, Y.L;
*_____
```

INCLUDE   /HOME/STROUDS/V_O_SET.TXT

SETS

k commodity

/ 14570, 14605, 14620, 14830, 16007, 16015, 16055, 16130,
   16140, 16202, 16523, 16720 /

v van types

/ A1, A2, A3, B1, B2, B3, C1, D1, D2, D3, D4,
   E1, E2, F1, F2, F3 /

d destination

/ ZW2, WH5 /

w julian date

/   6,   13,   20,   27,   34,   41, 48,   55,   62,   69,
    76,   83,   90,   97, 104, 111, 118, 125, 132, 139,
   146, 153, 160, 167, 174, 181, 188, 195, 202, 209,
   216, 223, 230, 237, 244, 251, 258, 265, 272, 279,
   286, 293, 300, 307, 314 /

;

INCLUDE   /HOME/STROUDS/V_O_WT.TXT

PARAMETER

WEIGHT (k)

```
/ 14570    1
  14605    1
  14620    1
  14830    1
  16007    1
  16015    1
  16055    1
  16130    1
  16140    1
  16202    1
  16523    1
  16720    1  /
```

;

INCLUDE   /HOME/STROUDS/V_O_CUBE.TXT

PARAMETER

CUBES(k)

```
/ 14570    0.0371
  14605    0.025
  14620    0.062
  14830    0.062
  16007    0.1
  16015    0.08
  16055    0.11
  16130    0.113
  16140    0.0667
  16202    0.025
  16523    0.036
  16720    0.0333  /
```

;

INCLUDE   /HOME/STROUDS/V_O_DEM.TXT

TABLE

DEMAND(k,d,w)

	6	13	20	27	34	41	48	55
14570.ZW2	1050	280	0	280	280	280	280	280
14570.WH5	1015	665	0	665	665	1015	735	1015
14605.ZW2	0	0	0	0	0	0	0	0
14605.WH5	320	200	0	200	200	240	240	240
14620.ZW2	0	0	0	0	0	0	0	0
14620.WH5	0	600	0	0	0	0	0	0
14830.ZW2	0	0	0	0	0	0	0	0
14830.WH5	0	100	0	0	0	0	0	0
16007.ZW2	0	0	0	0	0	0	0	0
16007.WH5	240	220	0	220	220	240	240	240
16015.ZW2	0	0	0	0	0	0	0	0
16015.WH5	0	210	0	210	210	210	210	210
16055.ZW2	0	500	0	500	500	500	500	500
16055.WH5	720	820	0	820	820	780	780	780
16130.ZW2	100	100	0	100	100	100	100	100
16130.WH5	1480	1060	0	1060	1060	980	980	980
16140.ZW2	750	1400	0	1400	1400	1400	1400	1400
16140.WH5	4180	3355	0	3355	3050	1800	1800	1800
16202.ZW2	0	0	0	0	0	0	0	0
16202.WH5	0	480	0	480	480	0	520	520
16523.ZW2	0	0	0	0	0	0	0	0
16523.WH5	0	450	0	0	0	0	0	0
16720.ZW2	0	0	0	0	0	0	0	0
16720.WH5	0	90	0	0	0	0	0	90

+	62	69	76	83	90	97	104	111
14570.ZW2	280	280	280	0	280	280	280	280
14570.WH5	1015	1015	1015	315	1015	1015	1015	1015
14605.ZW2	0	0	0	0	0	0	0	0
14605.WH5	240	240	240	240	240	240	240	240
14620.ZW2	0	0	0	0	0	0	0	0
14620.WH5	0	0	0	0	0	0	0	0
14830.ZW2	0	0	0	0	0	0	0	0
14830.WH5	0	0	0	0	0	0	0	0
16007.ZW2	0	0	0	0	0	0	0	0
16007.WH5	240	240	240	240	240	240	240	240
16015.ZW2	0	0	0	0	0	0	0	0
16015.WH5	210	210	210	210	210	210	210	210
16055.ZW2	500	120	120	120	120	120	120	120
16055.WH5	780	780	780	780	780	780	780	780
16130.ZW2	100	100	100	100	100	100	100	100
16130.WH5	980	980	980	980	980	980	980	980
16140.ZW2	1400	1400	1400	1400	1400	1400	1400	1400
16140.WH5	1800	1800	1800	1800	1800	1800	1800	1800

16202.ZW2	0	0	0	0	0	0	0	0
16202.WH5	520	520	520	520	520	0	0	520
16523.ZW2	0	0	0	0	0	0	0	0
16523.WH5	0	0	0	0	0	0	0	0
16720.ZW2	0	0	0	0	0	0	0	0
16720.WH5	90	90	90	90	90	90	90	90
+	118	125	132	139	146	153	160	167
14570.ZW2	280	280	280	280	280	280	280	280
14570.WH5	1015	1015	1015	1015	1015	1015	1015	1015
14605.ZW2	0	0	0	0	0	0	0	0
14605.WH5	240	240	240	240	240	240	240	240
14620.ZW2	0	0	0	0	0	0	0	0
14620.WH5	0	0	0	0	0	0	0	0
14830.ZW2	0	0	0	0	0	0	0	0
14830.WH5	0	0	0	0	0	0	0	0
16007.ZW2	0	0	0	0	0	0	0	0
16007.WH5	240	240	240	240	240	240	240	0
16015.ZW2	0	0	0	0	0	0	0	0
16015.WH5	210	210	210	210	210	210	210	210
16055.ZW2	120	120	120	120	120	120	120	120
16055.WH5	780	780	780	780	780	780	780	780
16130.ZW2	100	100	100	100	60	100	100	100
16130.WH5	980	980	980	980	980	980	980	980
16140.ZW2	1400	1400	1400	1400	1400	1400	1400	1400
16140.WH5	1800	1800	1800	1800	1800	800	1800	1800
16202.ZW2	0	0	0	0	0	0	0	0
16202.WH5	520	520	520	520	520	520	520	520
16523.ZW2	0	0	0	0	0	0	0	0
16523.WH5	0	0	0	0	0	0	0	0
16720.ZW2	0	0	0	0	0	0	0	0
16720.WH5	90	90	0	0	90	90	90	90
+	174	181	188	195	202	209	216	223
14570.ZW2	280	280	280	525	525	525	525	525
14570.WH5	1015	1015	1015	1015	1015	1015	1015	1015
14605.ZW2	0	0	0	0	0	0	0	0
14605.WH5	240	240	240	240	240	240	240	240
14620.ZW2	0	0	0	0	0	0	0	0
14620.WH5	0	0	0	0	0	0	0	0
14830.ZW2	0	0	0	0	0	0	0	0
14830.WH5	0	0	0	0	0	0	0	0
16007.ZW2	0	0	0	0	0	0	0	0
16007.WH5	240	240	240	240	240	240	240	240
16015.ZW2	0	0	0	0	0	0	0	0
16015.WH5	210	210	0	0	210	0	210	210
16055.ZW2	120	120	120	120	120	120	120	120
16055.WH5	780	780	780	780	780	780	780	780
16130.ZW2	100	100	100	100	100	100	100	100
16130.WH5	980	980	980	980	980	980	980	980
16140.ZW2	1400	1400	1400	600	600	600	600	600

16140.WH5	1800	1800	800	1800	1800	1800	1800	1800
16202.ZW2	0	0	0	0	0	0	0	0
16202.WH5	0	0	0	0	0	0	440	0
16523.ZW2	0	0	0	0	0	0	0	0
16523.WH5	0	0	0	0	0	0	0	0
16720.ZW2	0	0	0	0	0	0	0	0
16720.WH5	90	90	90	90	90	90	90	90
+	230	237	244	251	258	265	272	279
14570.ZW2	525	525	525	0	525	525	525	525
14570.WH5	1015	1015	1015	1015	1015	1015	1015	0
14605.ZW2	0	0	0	0	0	0	0	0
14605.WH5	240	240	240	240	240	240	240	240
14620.ZW2	0	0	0	0	0	0	0	0
14620.WH5	0	0	0	0	0	0	0	0
14830.ZW2	0	0	0	0	0	0	0	0
14830.WH5	0	0	0	0	0	0	0	0
16007.ZW2	0	0	0	0	0	0	0	0
16007.WH5	240	240	240	0	240	240	240	240
16015.ZW2	0	0	0	0	0	0	0	0
16015.WH5	210	210	210	210	30	10	210	0
16055.ZW2	120	120	120	120	120	120	120	120
16055.WH5	780	780	780	780	780	780	780	780
16130.ZW2	100	100	100	100	100	100	100	100
16130.WH5	980	980	980	980	980	980	980	980
16140.ZW2	600	600	600	600	600	600	600	600
16140.WH5	1800	1800	1800	1800	1800	1800	1800	1800
16202.ZW2	0	0	0	0	0	0	0	0
16202.WH5	440	440	0	0	360	0	440	440
16523.ZW2	0	0	0	0	0	0	0	0
16523.WH5	0	0	0	0	0	0	0	0
16720.ZW2	0	0	0	0	0	0	0	0
16720.WH5	0	90	0	0	90	90	90	90
+	286	293	300	307	314			
14570.ZW2	525	525	525	525	525			
14570.WH5	1015	1015	1015	1015	1015			
14605.ZW2	0	0	0	0	0			
14605.WH5	240	240	240	240	240			
14620.ZW2	0	0	0	0	0			
14620.WH5	0	0	0	0	0			
14830.ZW2	0	0	0	0	0			
14830.WH5	0	0	0	0	0			
16007.ZW2	0	0	0	0	0			
16007.WH5	240	240	240	240	240			
16015.ZW2	0	0	0	0	0			
16015.WH5	210	0	210	210	210			
16055.ZW2	120	120	120	120	120			
16055.WH5	780	780	780	780	780			
16130.ZW2	100	100	100	100	100			
16130.WH5	980	980	980	980	980			

16140.ZW2	600	600	600	600	600
16140.WH5	1800	1800	1800	1800	5000
16202.ZW2	0	0	0	0	0
16202.WH5	440	40	440	440	440
16523.ZW2	0	0	0	0	0
16523.WH5	0	0	0	0	0
16720.ZW2	0	0	0	0	0
16720.WH5	90	90	90	90	90	;

INCLUDE   /HOME/STROUDS/V_POSS.TXT

TABLE

POSSIBLE(k,v)

	A1	A2	A3	B1	B2	B3	C1	D1
14570	0	0	0	0	0	0	0	1
14605	0	0	0	0	0	0	0	1
14620	0	0	0	0	0	0	0	0
14830	0	0	0	0	0	0	0	0
16007	1	0	0	1	1	0	0	0
16015	1	0	0	1	0	0	0	0
16055	1	0	0	1	1	1	0	0
16130	1	0	0	1	1	0	0	0
16140	1	1	0	1	1	0	0	1
16202	1	0	0	1	1	1	0	1
16523	0	0	0	1	0	0	0	1
16720	0	0	0	0	0	0	0	1

+	D2	D3	D4	E1	E2	F1	F2	F3
14570	1	0	0	0	0	1	1	0
14605	0	0	0	0	0	1	1	0
14620	0	0	0	0	0	1	1	0
14830	0	0	0	0	0	1	1	0
16007	0	0	0	0	0	0	0	0
16015	0	0	0	0	0	0	0	0
16055	0	0	0	0	0	0	0	0
16130	0	0	0	0	0	0	0	0
16140	0	0	0	0	0	0	0	0
16202	0	0	0	1	0	0	0	0
16523	0	0	0	1	0	1	1	0
16720	0	0	0	1	0	1	1	0	;

2. KOREA MODEL

```
*----------------GAMS AND DOLLAR CONTROL OPTIONS----------------------------------

$OFFUPPER   OFFSYMLIST   OFFSYMXREF

OPTIONS
        LIMCOL = 0,      LIMROW = 0,      SOLPRINT = OFF,  DECIMALS = 2
        RESLIM = 5000,   ITERLIM = 2000,  OPTCR = 0.1,      SEED = 3141;


*-------------------------------------------------------------------------------


$INCLUDE V_K_SET.TXT
$INCLUDE V_K_WT.TXT
$INCLUDE V_K_CUBE.TXT
$INCLUDE V_K_DEM.TXT
$INCLUDE V_K_POSS.TXT


*-------------------------------------------------------------------------------


POSITIVE VARIABLES
        X(v,d,k,w)       AMOUNT OF k TO PUT IN VAN TYPE v IN WEEK w  TO
                              DESITNATION d;

INTEGER VARIABLES
        Y(v,d,w)         NUMBER OF VAN TYPE v NEEDED IN WEEK w FOR DESTINATION d;

VARIABLES
        TOTVANS          TOTAL VANS NEEDED;

EQUATIONS
        OBJ              TOTAL VANS NEEDED
        WT(v,w,d)        WEIGHT CONSTRAINTS
        CB(v,w,d)        CUBIC FEET CONSTRAINTS
        ORDER(k,d,w)     DEMAND CONSTRAINTS
        NUMVAN(v,w,d)    NUMBER OF VAN TYPE v NEEDED
        TOTAL            TOTAL DEMAND EQUALS TOTAL PACKED;

*-------------------------------------------------------------------------------

OBJ..              TOTVANS =E= SUM((v,w,d), Y(v,d,w));
WT(v,w,d)..        SUM((k), X(v,d,k,w) * WEIGHT(k) * POSSIBLE(k,v)) =L= 55400 *
                        Y(v,d,w);
CB(v,w,d)..        SUM((k), X(v,d,k,w) * CUBES(k) * POSSIBLE(k,v)) =L= 2004 * Y(v,d,w);
ORDER(k,d,w)..     SUM((v), X(v,d,k,w) * POSSIBLE(k,v)) =G= DEMAND(k,d,w);
NUMVAN(v,w,d)..    SUM((k), X(v,d,k,w) * WEIGHT(k)) =L= Y(v,d,w) * 55000;
TOTAL..            SUM((k,v,w,d), X(v,d,k,w)) =E= SUM((k,d,w), DEMAND(k,d,w));

*-------------------------------------------------------------------------------
```

```
MODEL VANS /ALL/
SOLVE VANS USING MIP MINIMIZING TOTVANS;
DISPLAY TOTVANS.L, X.L, Y.L;
```

*--

INCLUDE   /HOME/STROUDS/V_K_SET.TXT

SETS

k commodity

/ 14009, 14330, 14340, 14390, 14565, 14570, 14605, 14620, 14650, 14892,
   14970, 14977, 16007, 16055, 16074, 16130, 16140, 16235, 16287, 16510,
   16525, 16611, 16620, 16720 /

v van types

/ A1, A2, A3, B1, B2, B3, C1, D1, D2, D3,
   D4, E1, E2, F1, F2, F3   /

d destination

/ KD3, WHB, WHA /

w julian date

/   6,   13,   20,   27,   34,   41,   48,   55,   62,   69,
    76,   83   90,   97, 104, 111, 118, 125, 132, 139,
   146, 153, 160, 167, 174, 181, 188, 195, 202, 209,
   216, 223, 230, 237, 244, 251, 258, 265, 272, 279,
   286, 293, 300, 307, 314 /

;

```
INCLUDE   /HOME/STROUDS/V_K_WT.TXT

PARAMETER

WEIGHT (k)

/  14009     1
   14330     1
   14340     1
   14390     1
   14565     1
   14570     1
   14605     1
   14620     1
   14650     1
   14892     1
   14970     1
   14977     1
   16007     1
   16055     1
   16074     1
   16130     1
   16140     1
   16235     1
   16287     1
   16510     1
   16525     1
   16611     1
   16620     1
   16720     1 /

;
```

INCLUDE   /HOME/STROUDS/V_K_CUBE.TXT

PARAMETER

CUBES(k)

```
/  14009   0.38
   14330   0.0575
   14340   0.075
   14390   0.0433
   14565   0.134
   14570   0.0371
   14605   0.025
   14620   0.062
   14650   0.065
   14892   0.052
   14970   0.052
   14977   0.0456
   16007   0.1
   16055   0.11
   16074   0.0909
   16130   0.113
   16140   0.0667
   16235   0.092
   16287   0.0833
   16510   0.04
   16525   0.0306
   16611   0.0909
   16620   0.04
   16720   0.0333 /

;
```

INCLUDE   /HOME/STROUDS/V_K_DEM.TXT

TABLE

DEMAND(k,d,w)

	6	13	20	27	34	41	48	55
14009.KD3	4520	8200	7750	6600	6800	9600	7600	8000
14009.WHB	280	240	240	240	240	240	240	240
14009.WHA	200	200	200	200	200	196	196	196
14330.KD3	0	0	0	0	0	0	0	0
14330.WHB	0	0	0	0	40	0	0	0
14330.WHA	0	0	0	0	0	0	0	0
14340.KD3	0	0	0	0	0	0	0	0
14340.WHB	0	0	0	0	0	0	0	0
14340.WHA	0	0	0	0	0	0	0	0
14390.KD3	0	0	0	0	0	0	0	0
14390.WHB	120	0	0	0	0	0	0	0
14390.WHA	60	0	0	0	0	0	0	0
14565.KD3	0	0	0	0	0	0	0	0
14565.WHB	30	40	40	40	20	30	30	30
14565.WHA	0	0	0	0	0	0	0	0
14570.KD3	735	875	980	875	1015	910	1050	1015
14570.WHB	210	0	350	175	175	175	175	175
14570.WHA	140	140	140	140	140	140	140	140
14605.KD3	0	0	0	0	0	0	0	0
14605.WHB	0	40	0	40	0	40	0	40
14605.WHA	0	0	0	0	0	0	0	0
14620.KD3	0	0	0	0	0	0	0	0
14620.WHB	0	0	0	0	0	0	50	50
14620.WHA	0	0	0	0	0	0	50	50
14650.KD3	0	0	0	0	0	0	0	0
14650.WHB	0	0	0	0	0	0	0	0
14650.WHA	0	0	0	0	0	100	100	80
14892.KD3	0	0	0	0	0	0	0	0
14892.WHB	0	0	0	0	0	0	0	0
14892.WHA	0	0	0	0	0	0	0	0
14970.KD3	2385	2125	1775	2725	1775	3425	2450	2600
14970.WHB	75	75	75	75	75	75	75	75
14970.WHA	100	100	100	100	100	50	50	50
14977.KD3	0	0	0	0	0	0	0	0
14977.WHB	0	0	0	0	0	0	0	0
14977.WHA	0	0	0	0	0	0	0	0
16007.KD3	0	0	0	0	0	0	0	0
16007.WHB	20	20	0	20	0	20	0	20
16007.WHA	0	0	0	0	0	0	0	0
16055.KD3	40	80	40	40	40	40	40	40
16055.WHB	100	160	160	160	160	160	160	160
16055.WHA	80	80	80	80	80	80	80	80
16074.KD3	2800	2400	2800	2350	2900	2400	2800	2650
16074.WHB	432	384	384	384	384	384	384	384

16074.WHA	144	144	144	144	144	144	44	144
16130.KD3	40	100	40	40	40	40	40	40
16130.WHB	40	40	40	40	40	40	40	40
16130.WHA	40	40	40	40	40	40	40	40
16140.KD3	2700	2750	2750	2600	2350	2700	2500	2100
16140.WHB	350	450	450	450	450	450	450	450
16140.WHA	200	200	200	200	200	200	200	200
16235.KD3	0	0	0	0	0	0	0	0
16235.WHB	20	0	0	0	10	0	0	0
16235.WHA	0	0	0	0	0	0	0	0
16287.KD3	6090	6690	3690	6600	4800	8220	7020	7710
16287.WHB	750	900	900	900	900	900	900	900
16287.WHA	600	600	600	600	600	600	600	600
16510.KD3	0	0	0	0	0	0	0	0
16510.WHB	50	0	0	0	0	0	0	0
16510.WHA	0	0	0	0	0	0	0	0
16525.KD3	26500	22500	28500	25700	14700	29700	18700	30000
16525.WHB	1000	1000	1000	1000	1000	500	1000	1000
16525.WHA	0	0	0	0	0	0	0	0
16611.KD3	0	0	0	0	0	0	0	0
16611.WHB	11	33	33	33	33	33	22	33
16611.WHA	11	11	11	11	11	11	11	11
16620.KD3	0	0	0	0	0	0	0	0
16620.WHB	25	0	0	0	25	25	25	25
16620.WHA	0	0	0	0	0	0	0	0
16720.KD3	0	0	0	0	0	0	0	0
16720.WHB	30	0	0	0	30	0	30	0
16720.WHA	0	0	0	0	0	0	0	0
+	62	69	76	83	90	97	104	111
14009.KD3	9400	9720	8280	11680	11680	12080	12800	12600
14009.WHB	240	240	240	240	240	240	240	240
14009.WHA	36	36	196	196	196	196	156	156
14330.KD3	0	0	0	0	0	0	0	0
14330.WHB	0	0	0	0	0	40	0	0
14330.WHA	0	0	0	0	0	0	0	0
14340.KD3	0	0	0	0	0	0	0	0
14340.WHB	0	0	0	0	0	0	0	0
14340.WHA	0	0	0	0	0	0	0	0
14390.KD3	0	0	0	0	0	0	0	0
14390.WHB	0	0	0	0	0	0	0	0
14390.WHA	0	0	0	0	0	0	0	0
14565.KD3	0	0	0	0	0	0	0	0
14565.WHB	30	30	40	40	40	40	40	40
14565.WHA	0	0	0	0	0	0	0	0
14570.KD3	1015	910	1015	1015	1015	1050	1050	1050
14570.WHB	175	175	175	175	175	175	140	140
14570.WHA	140	140	140	140	140	140	140	140
14605.KD3	0	0	0	0	0	0	0	0
14605.WHB	0	0	40	0	40	0	40	40
14605.WHA	0	0	0	0	0	0	0	0

14620.KD3	0	0	0	0	0	0	0	0
14620.WHB	0	0	50	50	50	50	50	50
14620.WHA	0	0	50	50	50	50	50	50
14650.KD3	0	0	0	0	0	0	0	0
14650.WHB	0	0	0	0	0	0	0	0
14650.WHA	100	100	100	0	0	0	0	0
14892.KD3	0	0	0	0	0	0	0	0
14892.WHB	0	0	0	0	0	0	0	0
14892.WHA	0	0	0	0	0	0	0	0
14970.KD3	3150	2950	2950	2400	2400	2425	2450	2450
14970.WHB	75	75	125	125	125	125	125	125
14970.WHA	50	50	50	50	50	50	50	50
14977.KD3	0	0	0	0	0	0	0	0
14977.WHB	0	0	0	0	0	0	0	0
14977.WHA	0	0	0	0	0	0	0	0
16007.KD3	0	0	0	0	0	0	0	0
16007.WHB	0	0	20	0	20	0	0	0
16007.WHA	0	0	0	0	0	0	0	0
16055.KD3	40	40	40	20	20	20	20	20
16055.WHB	160	160	160	160	160	160	120	120
16055.WHA	80	80	80	80	80	80	80	80
16074.KD3	2650	2300	2350	2850	2450	2750	2350	2800
16074.WHB	384	384	384	384	384	384	432	432
16074.WHA	144	144	144	144	144	144	144	144
16130.KD3	40	40	40	20	20	20	20	20
16130.WHB	40	40	40	40	40	40	40	40
16130.WHA	40	40	40	40	40	40	40	40
16140.KD3	2500	1800	2750	2500	2900	2400	2800	2450
16140.WHB	450	450	450	450	450	450	450	450
16140.WHA	200	200	200	200	200	200	200	200
16235.KD3	0	0	0	0	0	0	0	0
16235.WHB	0	10	0	0	0	0	10	0
16235.WHA	0	0	0	0	0	0	0	0
16287.KD3	7260	5760	6960	6450	7650	6960	7050	8130
16287.WHB	900	900	900	900	900	900	900	900
16287.WHA	600	600	600	600	600	600	600	600
16510.KD3	0	0	0	0	0	0	0	0
16510.WHB	0	0	0	0	0	0	0	0
16510.WHA	0	0	0	0	0	0	0	0
16525.KD3	30000	30000	30000	30000	30000	29700	32000	32000
16525.WHB	1000	0	250	150	0	0	500	500
16525.WHA	0	0	0	0	0	0	0	0
16611.KD3	0	0	0	0	0	0	0	0
16611.WHB	33	33	33	33	33	33	22	22
16611.WHA	11	11	11	11	11	11	11	11
16620.KD3	0	0	0	0	0	0	0	0
16620.WHB	25	25	0	0	0	25	0	0
16620.WHA	0	0	0	0	0	0	0	0
16720.KD3	0	0	0	0	0	0	0	0
16720.WHB	30	0	0	0	0	30	0	30
16720.WHA	0	0	0	0	0	0	0	0

+	118	125	132	139	146	153	160	167
14009.KD3	11600	13000	12600	12600	12600	12200	9080	14000
14009.WHB	240	240	240	400	400	400	400	400
14009.WHA	156	156	156	196	196	196	196	196
14330.KD3	0	0	0	0	0	0	0	0
14330.WHB	0	0	40	0	0	40	0	0
14330.WHA	0	0	0	0	0	0	0	0
14340.KD3	0	0	0	0	0	0	0	0
14340.WHB	0	0	0	0	0	0	0	0
14340.WHA	0	0	0	0	0	0	0	0
14390.KD3	0	0	0	0	0	0	0	0
14390.WHB	0	0	0	0	0	0	0	0
14390.WHA	0	0	0	0	0	0	0	0
14565.KD3	0	0	0	0	0	0	0	0
14565.WHB	20	40	20	20	40	40	40	50
14565.WHA	0	0	0	0	0	0	0	0
14570.KD3	1050	1050	1050	1050	1050	1050	1050	1050
14570.WHB	140	140	140	140	140	140	140	140
14570.WHA	140	140	140	140	140	140	140	140
14605.KD3	0	0	0	0	0	0	0	0
14605.WHB	40	40	40	0	40	0	40	0
14605.WHA	0	0	0	0	0	0	0	0
14620.KD3	0	0	0	0	0	0	0	0
14620.WHB	50	50	50	50	50	50	50	50
14620.WHA	50	50	50	50	50	50	50	50
14650.KD3	0	0	0	0	0	0	1620	1520
14650.WHB	0	0	0	100	100	100	100	100
14650.WHA	0	100	100	100	100	100	100	100
14892.KD3	0	0	0	0	0	0	2525	2525
14892.WHB	0	0	0	0	0	0	100	100
14892.WHA	0	0	0	0	0	0	0	0
14970.KD3	2400	2400	2900	2900	0	0	0	0
14970.WHB	125	125	125	0	0	0	0	0
14970.WHA	50	50	50	0	0	0	0	0
14977.KD3	0	0	0	0	0	0	0	0
14977.WHB	0	0	0	0	0	0	1360	0
14977.WHA	0	0	0	0	0	0	0	0
16007.KD3	0	0	0	0	0	0	0	0
16007.WHB	20	0	20	0	20	0	20	0
16007.WHA	0	0	0	0	0	0	0	0
16055.KD3	20	20	20	20	20	20	20	20
16055.WHB	120	120	120	120	120	120	120	160
16055.WHA	80	80	80	100	100	100	100	100
16074.KD3	2350	2650	2650	2650	2650	2650	3050	3350
16074.WHB	432	432	432	432	432	432	432	480
16074.WHA	144	144	144	192	192	192	192	192
16130.KD3	20	20	20	20	20	20	20	20
16130.WHB	40	40	40	40	40	40	60	60
16130.WHA	40	40	40	40	40	40	40	40
16140.KD3	2750	2650	2400	2650	2450	2450	2750	2800
16140.WHB	450	450	450	400	400	400	400	400

16140.WHA	200	200	200	250	250	250	250	250
16235.KD3	0	0	0	0	0	0	0	0
16235.WHB	10	10	0	10	0	10	0	20
16235.WHA	0	0	0	0	0	0	0	0
16287.KD3	8040	7170	7320	7320	7320	7320	8910	10050
16287.WHB	900	900	900	900	900	900	900	1200
16287.WHA	600	600	600	600	600	600	600	600
16510.KD3	0	0	0	0	0	0	0	0
16510.WHB	0	0	0	0	0	0	0	0
16510.WHA	0	0	0	0	0	0	0	0
16525.KD3	31700	30200	28500	28500	27000	27700	29500	27100
16525.WHB	500	500	500	500	500	500	500	500
16525.WHA	0	0	0	0	0	0	0	0
16611.KD3	0	0	0	0	0	0	0	350
16611.WHB	22	22	22	22	0	0	0	0
16611.WHA	11	11	11	11	0	0	0	0
16620.KD3	0	0	0	0	0	0	0	0
16620.WHB	0	0	0	0	0	25	0	0
16620.WHA	0	0	0	0	0	0	0	0
16720.KD3	0	0	0	0	0	0	0	0
16720.WHB	0	30	0	30	0	30	0	0
16720.WHA	0	0	0	0	0	0	0	0
+	174	181	188	195	202	209	216	223
14009.KD3	14000	13280	13080	14320	13200	12320	0	11320
14009.WHB	400	400	400	400	400	320	320	320
14009.WHA	196	196	196	196	196	196	196	196
14330.KD3	0	0	0	0	0	0	0	0
14330.WHB	0	40	0	0	0	0	40	0
14330.WHA	0	0	0	0	0	0	0	0
14340.KD3	0	0	0	0	0	0	0	0
14340.WHB	0	0	0	0	0	0	0	0
14340.WHA	0	0	0	0	0	0	0	0
14390.KD3	0	0	0	0	0	0	0	0
14390.WHB	0	0	0	0	0	0	0	0
14390.WHA	0	0	0	0	0	0	0	0
14565.KD3	0	0	0	0	0	0	0	0
14565.WHB	50	50	50	50	50	30	30	30
14565.WHA	0	0	0	0	0	0	0	0
14570.KD3	1050	1050	1190	1295	1295	1330	0	1330
14570.WHB	140	140	140	140	140	175	175	175
14570.WHA	140	140	140	140	140	140	140	140
14605.KD3	0	0	0	0	0	0	0	0
14605.WHB	40	0	40	0	40	0	40	0
14605.WHA	0	0	0	0	0	0	0	0
14620.KD3	0	0	0	0	0	0	0	0
14620.WHB	50	50	50	50	50	50	50	50
14620.WHA	50	50	50	50	50	50	50	50
14650.KD3	1520	1120	1120	1120	1120	860	0	1060
14650.WHB	100	100	100	100	100	100	100	100
14650.WHA	100	100	100	100	100	100	100	100

14892.KD3	2450	1725	1725	1725	1725	1500	0	1700
14892.WHB	100	100	100	100	100	125	125	125
14892.WHA	0	0	0	0	0	0	0	0
14970.KD3	0	0	0	0	0	0	0	0
14970.WHB	0	0	0	0	0	0	0	0
14970.WHA	0	0	0	0	0	0	0	0
14977.KD3	0	0	0	0	0	0	0	0
14977.WHB	0	0	0	0	0	0	0	0
14977.WHA	0	4	0	0	0	0	0	0
16007.KD3	0	0	0	0	0	0	0	0
16007.WHB	20	0	20	0	20	0	20	0
16007.WHA	0	0	0	0	0	0	0	0
16055.KD3	20	20	20	20	20	20	0	0
16055.WHB	160	160	160	160	160	160	160	160
16055.WHA	100	100	100	100	100	100	100	100
16074.KD3	3350	2700	2800	2900	2900	2900	0	2750
16074.WHB	480	480	480	480	480	384	384	384
16074.WHA	192	192	192	192	192	192	192	192
16130.KD3	20	20	20	20	20	20	0	0
16130.WHB	60	60	60	60	40	40	40	40
16130.WHA	40	40	40	40	40	40	40	40
16140.KD3	2800	2550	2000	2450	2050	2300	0	2400
16140.WHB	400	400	400	400	400	400	400	400
16140.WHA	250	250	250	250	250	250	250	250
16235.KD3	0	0	0	0	0	0	0	0
16235.WHB	0	20	0	10	0	10	0	10
16235.WHA	0	0	0	0	0	0	0	0
16287.KD3	10110	8220	6810	7980	7980	7590	0	7470
16287.WHB	1200	1200	1200	1200	1200	0	0	0
16287.WHA	600	600	600	600	600	600	600	600
16510.KD3	0	0	0	0	0	0	0	0
16510.WHB	0	0	0	0	0	0	0	0
16510.WHA	0	0	0	0	0	0	0	0
16525.KD3	27100	29700	30200	29700	29700	26800	0	26800
16525.WHB	500	500	500	500	0	0	0	0
16525.WHA	0	0	0	0	0	0	0	0
16611.KD3	0	0	0	0	0	0	0	0
16611.WHB	22	22	0	22	22	0	22	22
16611.WHA	11	11	0	11	11	0	11	11
16620.KD3	0	0	0	0	0	0	0	0
16620.WHB	0	0	0	0	0	25	0	25
16620.WHA	0	0	0	0	0	0	0	0
16720.KD3	0	0	0	0	0	0	0	0
16720.WHB	0	30	0	0	0	30	0	0
16720.WHA	0	0	0	0	0	0	0	0
+	230	237	244	251	258	265	272	279
14009.KD3	11400	10600	10600	9800	9600	9200	9000	9000
14009.WHB	280	280	280	320	320	320	320	320
14009.WHA	196	196	196	196	196	196	196	196
14330.KD3	0	0	0	0	0	0	0	0

14330.WHB	0	0	40	0	0	0	40	0
14330.WHA	0	0	0	0	0	0	0	0
14340.KD3	0	0	0	0	0	0	0	0
14340.WHB	0	0	0	0	0	0	0	0
14340.WHA	0	0	0	0	0	0	0	0
14390.KD3	0	0	0	0	0	0	0	0
14390.WHB	0	0	0	0	0	0	0	0
14390.WHA	0	0	0	0	0	0	0	0
14565.KD3	0	0	0	0	0	0	0	0
14565.WHB	50	50	50	50	50	50	50	50
14565.WHA	0	0	0	0	0	0	0	0
14570.KD3	1330	1225	1225	1225	1225	1225	1225	1225
14570.WHB	175	175	175	175	175	175	175	175
14570.WHA	140	140	140	140	140	140	140	140
14605.KD3	0	0	0	0	0	0	0	0
14605.WHB	40	0	40	0	40	0	40	0
14605.WHA	0	0	0	0	0	0	0	0
14620.KD3	0	0	0	0	0	0	0	0
14620.WHB	50	50	50	50	50	50	50	50
14620.WHA	50	50	50	50	50	50	50	50
14650.KD3	1060	660	660	0	0	0	0	0
14650.WHB	100	100	100	100	100	100	100	100
14650.WHA	100	100	100	100	100	100	100	100
14892.KD3	1700	1250	1250	0	0	0	0	0
14892.WHB	125	125	125	125	125	125	125	0
14892.WHA	0	0	0	0	0	0	0	0
14970.KD3	0	0	0	0	0	0	0	0
14970.WHB	0	0	0	0	0	0	0	0
14970.WHA	0	0	0	0	0	0	0	0
14977.KD3	0	0	0	0	0	0	0	0
14977.WHB	0	0	0	0	0	0	0	0
14977.WHA	0	0	0	0	0	0	0	0
16007.KD3	0	0	0	0	0	0	0	0
16007.WHB	20	0	20	0	20	0	20	0
16007.WHA	0	0	0	0	0	0	0	0
16055.KD3	0	20	20	40	40	40	40	40
16055.WHB	160	160	160	160	160	160	160	160
16055.WHA	100	100	100	100	100	100	100	100
16074.KD3	2750	2550	2550	2550	2500	2500	2450	2450
16074.WHB	384	384	384	384	384	384	384	384
16074.WHA	192	192	192	192	192	192	192	192
16130.KD3	20	20	20	40	40	40	40	40
16130.WHB	40	40	40	40	40	40	40	40
16130.WHA	40	40	40	40	40	40	40	40
16140.KD3	2400	2400	2400	4800	2350	0	2400	2400
16140.WHB	400	400	400	400	450	450	450	450
16140.WHA	250	250	250	250	250	250	250	250
16235.KD3	0	0	0	0	0	0	0	0
16235.WHB	0	10	0	10	0	10	0	10
16235.WHA	0	0	0	0	0	0	0	0
16287.KD3	7590	7230	7260	7470	6390	7470	7470	7470

16287.WHB	1200	1200	1200	1200	1200	1200	1200	1200
16287.WHA	600	600	600	600	600	600	600	600
16510.KD3	0	0	0	0	0	0	0	0
16510.WHB	0	0	0	0	0	0	0	0
16510.WHA	0	0	0	0	0	0	0	0
16525.KD3	26800	26800	26800	22800	25800	25500	24800	24800
16525.WHB	0	0	0	0	0	0	0	0
16525.WHA	0	0	0	0	0	0	0	0
16611.KD3	0	0	0	0	0	0	0	0
16611.WHB	22	22	22	22	22	22	22	22
16611.WHA	11	11	11	11	11	11	11	11
16620.KD3	0	0	0	0	0	0	0	0
16620.WHB	0	0	0	0	0	0	0	0
16620.WHA	0	0	0	0	0	0	0	0
16720.KD3	0	0	0	0	0	0	0	0
16720.WHB	0	30	0	0	0	30	0	0
16720.WHA	0	0	0	0	0	0	0	0

+	286	293	300	307	314
14009.KD3	9800	15000	8800	11200	9600
14009.WHB	320	320	320	320	0
14009.WHA	196	196	196	196	196
14330.KD3	0	0	0	0	0
14330.WHB	0	0	40	0	0
14330.WHA	0	0	0	0	0
14340.KD3	0	0	0	0	0
14340.WHB	0	72	72	0	0
14340.WHA	0	0	0	0	0
14390.KD3	0	0	0	0	0
14390.WHB	0	0	0	0	0
14390.WHA	0	0	0	0	0
14565.KD3	0	0	0	0	0
14565.WHB	50	50	50	50	50
14565.WHA	0	0	0	0	0
14570.KD3	1295	1295	1295	1295	0
14570.WHB	175	175	175	175	175
14570.WHA	140	140	140	140	140
14605.KD3	0	0	0	0	0
14605.WHB	0	0	40	0	40
14605.WHA	0	0	0	0	0
14620.KD3	0	0	0	0	0
14620.WHB	50	0	0	0	0
14620.WHA	50	0	0	0	0
14650.KD3	0	0	0	0	0
14650.WHB	0	0	0	0	0
14650.WHA	0	0	0	0	0
14892.KD3	0	0	0	0	0
14892.WHB	0	0	0	0	0
14892.WHA	0	0	0	0	0
14970.KD3	0	0	0	2850	2750
14970.WHB	0	0	125	125	125

140

14970.WHA	0	0	0	0	0
14977.KD3	0	0	0	0	0
14977.WHB	0	0	0	0	0
14977.WHA	0	0	0	0	0
16007.KD3	0	0	0	0	0
16007.WHB	20	0	20	0	20
16007.WHA	0	0	0	0	0
16055.KD3	40	40	40	40	40
16055.WHB	160	160	160	160	160
16055.WHA	100	100	100	100	100
16074.KD3	2450	2500	2550	2600	2600
16074.WHB	384	384	384	384	384
16074.WHA	192	192	192	192	192
16130.KD3	40	40	40	40	40
16130.WHB	40	40	40	40	0
16130.WHA	40	40	40	40	40
16140.KD3	2400	2650	2600	2550	2450
16140.WHB	450	450	450	450	450
16140.WHA	250	250	250	250	250
16235.KD3	0	120	0	0	0
16235.WHB	0	10	0	10	0
16235.WHA	0	0	0	0	0
16287.KD3	7770	7920	6270	7320	6750
16287.WHB	1200	1200	1200	1200	1200
16287.WHA	600	600	600	600	600
16510.KD3	0	240	0	0	0
16510.WHB	0	0	0	0	0
16510.WHA	0	0	0	0	0
16525.KD3	20800	24800	20800	19300	23300
16525.WHB	0	0	0	0	0
16525.WHA	0	0	0	0	0
16611.KD3	0	250	0	0	0
16611.WHB	22	22	22	22	22
16611.WHA	11	11	11	11	11
16620.KD3	0	0	0	0	0
16620.WHB	0	0	0	0	0
16620.WHA	0	0	0	0	0
16720.KD3	0	0	0	0	0
16720.WHB	0	0	30	0	0
16720.WHA	0	0	0	0	0

;

INCLUDE   /HOME/STROUDS/V_K_POSS.TXT

TABLE

POSSIBLE(k,v)

	A1	A2	A3	B1	B2	B3	C1	D1
14009	1	1	1	0	0	0	0	0
14330	0	0	0	0	0	0	0	1
14340	0	1	0	1	0	0	0	1
14390	0	0	0	0	0	0	0	1
14565	0	1	0	1	1	0	0	0
14570	0	0	0	0	0	0	0	1
14605	0	0	0	0	0	0	0	1
14620	0	0	0	0	0	0	0	0
14650	1	1	0	1	0	0	0	0
14892	1	1	0	1	1	0	0	0
14970	0	0	0	0	0	0	0	1
14977	0	0	0	0	1	0	0	0
16007	1	0	0	1	1	0	0	0
16055	1	0	0	1	1	1	0	0
16074	0	0	0	1	1	0	0	0
16130	1	0	0	1	1	0	0	0
16140	1	1	0	1	1	0	0	1
16235	0	0	0	0	0	0	1	1
16287	1	1	1	1	1	0	0	0
16510	0	0	0	0	0	0	0	0
16525	0	0	0	0	0	0	0	0
16611	0	0	0	1	1	0	0	0
16620	0	0	0	1	1	0	0	0
16720	0	0	0	0	0	0	0	1

	D2	D3	D4	E1	E2	F1	F2	F3
14009	0	0	0	0	0	0	0	0
14330	1	0	0	0	0	0	0	0
14340	0	0	0	0	0	0	0	0
14390	0	0	0	0	0	1	1	0
14565	0	0	0	0	0	0	0	0
14570	1	0	0	0	0	1	1	0
14605	0	0	0	0	0	1	1	0
14620	0	0	0	0	0	1	1	0
14650	0	0	0	0	0	0	0	0
14892	0	0	0	0	0	0	0	0
14970	1	0	0	0	0	1	0	0
14977	0	0	0	0	0	1	1	0
16007	0	0	0	0	0	0	0	0
16055	0	0	0	0	0	0	0	0
16074	0	0	0	0	0	0	0	0
16130	0	0	0	0	0	0	0	0
16140	0	0	0	0	0	0	0	0
16235	0	0	0	0	0	1	0	0

16287 0	0	0	0	0	0	0	0
16510 0	0	0	1	0	0	1	0
16525 0	0	0	1	1	0	1	0
16611 0	0	0	1	0	0	0	0
16620 0	0	0	0	0	0	0	0
16720 0	0	0	1	0	1	1	0

;

3. GUAM MODEL

```
*----------------GAMS AND DOLLAR CONTROL OPTIONS----------------------------------

$OFFUPPER    OFFSYMLIST    OFFSYMXREF

OPTIONS
        LIMCOL = 0,     LIMROW = 0,      SOLPRINT = OFF,  DECIMALS = 2
        RESLIM = 5000,  ITERLIM = 2000,  OPTCR = 0.1,     SEED = 3141;


*-------------------------------------------------------------------------------------------


$INCLUDE V_G_SET.TXT
$INCLUDE V_G_WT.TXT
$INCLUDE V_G_CUBE.TXT
$INCLUDE V_G_DEM.TXT
$INCLUDE V_POSS.TXT


*-------------------------------------------------------------------------------------------


POSITIVE VARIABLES
        X(v,d,k,w)      AMOUNT OF k TO PUT IN VAN TYPE v IN WEEK w TO
                                DESTINATION d;

INTEGER VARIABLES
        Y(v,d,w)        NUMBER OF VAN TYPE v NEEDED IN WEEK w FOR  DESTINATION d;

VARIABLES
        TOTVANS         TOTAL NUMBER OF VANS NEEDED;

EQUATIONS

        OBJ                 TOTAL VANS NEEDED
        WT(v,w,d)           WEIGHT CONSTRAINTS
        CB(v,w,d)           CUBIC FEET CONSTRAINTS
        ORDER(k,d,w)        DEMAND CONSTRAINTS
        NUMVAN(v,w,d)       NUMBER OF VAN TYPE v NEEDED
        TOTAL               TOTAL DEMAND EQUALS TOTAL PACKED;


*-------------------------------------------------------------------------------------------

OBJ..              TOTVANS =E= SUM((v,w,d), Y(v,d,w));
WT(v,w,d)..        SUM((k), X(v,d,k,w) * WEIGHT(k) * POSSIBLE(k,v)) =L= 55400 *
Y(v,d,w);
CB(v,w,d)..        SUM((k), X(v,d,k,w) * CUBES(k) * POSSIBLE(k,v)) =L= 2004 * Y(v,d,w);
ORDER(k,d,w)..     SUM((v), X(v,d,k,w) * POSSIBLE(k,v)) =G= DEMAND(k,d,w);
NUMVAN(v,w,d)..    SUM((k), X(v,d,k,w) * WEIGHT(k)) =L= Y(v,d,w) * 55000;
TOTAL..            SUM((k,v,w,d), X(v,d,k,w)) =E= SUM((k,d,w), DEMAND(k,d,w));


*-------------------------------------------------------------------------------------------
```

```
MODEL VANS /ALL/
SOLVE VANS USING MIP MINIMIZING TOTVANS;
DISPLAY TOTVANS.L, X.L, Y.L;
```

*---

```
INCLUDE    /HOME/STROUDS/V_G_SET.TXT

SETS

k  commodity

/  14009,  14145,  14262,  14305,  14340,  14359,  14370  14390,  14565,  14570,
   14605,  14620,  14626,  14650,  14892,  14899,  14938,  14970,  16007,  16015,
   16041,  16055,  16074,  16077,  16130,  16140,  16175,  16184,  16202,  16225,
   16235,  16270,  16280,  16287,  16362,  16380,  16385,  16470,  16492,  16510,
   16523,  16525,  16611,  16620,  16700,  16720,  19621,  19628,  19701,  19710,
   19745,  19750 /


v  van types

/  A1,  A2,  A3,  B1,  B2,  B3,  C1,  D1,  D2,  D3,
   D4,  E1,  E2,  F1,  F2,  F3  /


d  destination

/  WHY,  WHZ,  LLP /


w  julian date

/    6,   13,   20,   27,   34,   41,   48,   55,   62,   69,
    76,   83,   90,   97,  104,  111,  118,  125,  132,  139,
   146,  153,  160,  167,  174,  181,  188,  195,  202,  209,
   216,  223,  230,  237,  244,  251,  258,  265,  272,  279,
   286,  293,  300,  307,  314,  321,  328,  335,  342  /


;
```

INCLUDE   /HOME/STROUDS/V_G_WT.TXT

PARAMETER

WEIGHT (k)

/	14009	1
	14145	1
	14262	1
	14305	1
	14340	1
	14359	1
	14370	1
	14390	1
	14565	1
	14570	1
	14605	1
	14620	1
	14626	1
	14650	1
	14892	1
	14899	1
	14938	1
	14970	1
	16007	1
	16015	1
	16041	1
	16055	1
	16074	1
	16077	1
	16130	1
	16140	1
	16175	1
	16184	1
	16202	1
	16225	1
	16235	1
	16270	1
	16280	1
	16287	1
	16362	1
	16380	1
	16385	1
	16470	1
	16492	1
	16510	1
	16523	1
	16525	1
	16611	1
	16620	1

```
16700    1
16720    1
19621    1
19628    1
19701    1
19710    1
19745    1
19750    1  /
```

;

INCLUDE   /HOME/STRPIDS/V_G_CUBE.TXT

PARAMETER

CUBES(k)

/	14009	0.38
	14145	0.15
	14262	0.045
	14305	0.0722
	14340	0.075
	14359	0.062
	14370	0.0333
	14390	0.0433
	14565	0.134
	14570	0.0371
	14605	0.025
	14620	0.062
	14626	0.052
	14650	0.065
	14892	0.052
	14899	0.065
	14938	0.0556
	14970	0.052
	16007	0.1
	16015	0.08
	16041	0.1
	16055	0.11
	16074	0.0909
	16077	0.0629
	16130	0.113
	16140	0.0667
	16175	0.05
	16184	0.1
	16202	0.025
	16225	0.065
	16235	0.092
	16270	0.05
	16280	0.1
	16287	0.0833
	16362	0.22
	16380	0.0056
	16385	0.1
	16470	0.0033
	16492	0.01
	16510	0.04
	16523	0.036
	16525	0.0306
	16611	0.0909
	16620	0.04

```
16700    0.1775
16720    0.0333
19621    0.03
19628    0.0417
19701    0.0417
19710    0.02
19745    0.0417
19750    0.0417  /

;
```

INCLUDE   /HOME/STROUDS/V_G_DEM.TXT

TABLE

DEMAND(k,d,w)

	6	13	20	27	34	41	48	55
14009.WHY	2412	2592	2592	1800	1592	1592	2736	2736
14009.WHZ	800	800	800	800	800	800	1200	1200
14009.LLP	2280	1200	1200	1200	8000	800	1200	1800
14145.WHY	200	200	200	200	200	400	400	0
14145.WHZ	0	0	0	0	0	0	0	0
14145.LLP	0	0	0	0	0	0	0	0
14262.WHY	0	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0
14262.LLP	1200	920	920	800	800	800	800	800
14305.WHY	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0
14305.LLP	0	0	0	0	0	0	0	0
14340.WHY	0	0	0	0	0	0	0	0
14340.WHZ	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0
14359.WHY	0	0	0	0	0	10	10	0
14359.WHZ	0	0	0	0	0	0	0	0
14359.LLP	0	0	0	0	0	0	0	0
14370.WHY	15	15	15	15	15	15	15	15
14370.WHZ	0	0	0	0	0	0	0	0
14370.LLP	0	0	0	0	0	0	0	0
14390.WHY	510	0	0	0	0	0	0	0
14390.WHZ	250	250	250	250	0	0	250	250
14390.LLP	0	0	0	0	0	0	0	0
14565.WHY	50	50	50	70	30	70	70	70
14565.WHZ	50	50	50	50	30	50	50	50
14565.LLP	100	100	100	50	0	0	60	60
14570.WHY	840	840	840	840	840	0	700	700
14570.WHZ	525	525	525	525	0	0	0	350
14570.LLP	490	280	280	280	280	280	280	280
14605.WHY	0	120	120	120	120	120	120	120
14605.WHZ	0	80	80	80	80	80	80	80
14605.LLP	0	0	0	0	0	0	0	0
14620.WHY	1000	0	0	0	0	0	100	5000
14620.WHZ	1000	0	0	0	0	0	150	3000
14620.LLP	0	0	0	0	0	0	0	60
14626.WHY	1000	30	1000	1000	1000	1250	1250	1250
14626.WHZ	500	500	500	500	500	500	500	500
14626.LLP	0	0	0	0	0	0	0	0
14650.WHY	0	0	0	0	0	600	600	0
14650.WHZ	0	0	0	0	0	0	400	400
14650.LLP	0	0	0	0	0	0	0	80
14892.WHY	0	0	0	0	0	0	0	0
14892.WHZ	0	0	0	0	0	0	250	0

14892.LLP	0	0	0	0	0	150	150	150
14899.WHY	0	240	240	240	240	240	240	240
14899.WHZ	0	0	0	0	0	0	0	0
14899.LLP	0	210	210	175	175	175	175	210
14938.WHY	0	0	0	0	0	0	0	0
14938.WHZ	0	0	0	0	0	0	0	0
14938.LLP	0	0	0	0	0	0	0	0
14970.WHY	1000	1000	1000	1000	1000	1250	1250	1250
14970.WHZ	1325	1325	1325	1325	1325	1325	1325	1325
14970.LLP	100	150	100	50	50	50	0	100
16007.WHY	60	40	60	60	60	60	60	60
16007.WHZ	40	40	40	40	40	40	40	40
16007.LLP	0	0	0	0	0	0	0	0
16015.WHY	180	180	180	180	180	210	210	210
16015.WHZ	150	150	150	150	150	150	150	150
16015.LLP	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	10	10
16041.WHZ	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0
16055.WHY	860	900	900	900	700	1000	1000	1000
16055.WHZ	800	800	800	800	800	800	800	800
16055.LLP	260	120	140	160	160	160	160	160
16074.WHY	1610	1610	1610	1610	1610	1797	1797	1797
16074.WHZ	1002	1002	1002	1002	1377	1377	1639	1639
16074.LLP	1000	500	750	0	5742	750	500	1250
16077.WHY	700	700	700	700	700	910	840	910
16077.WHZ	700	700	700	700	700	700	700	700
16077.LLP	0	0	0	0	0	0	0	0
16130.WHY	480	480	480	480	480	440	440	440
16130.WHZ	300	300	300	300	300	300	300	300
16130.LLP	240	120	140	140	140	140	140	120
16140.WHY	1436	1508	1508	1508	1508	1544	1544	1544
16140.WHZ	1005	1005	1505	1505	1505	1505	1505	1505
16140.LLP	650	0	650	500	650	650	650	650
16175.WHY	240	240	240	240	240	200	200	200
16175.WHZ	300	300	300	300	300	300	300	300
16175.LLP	0	0	0	0	0	0	0	0
16184.WHY	0	0	0	0	0	0	0	0
16184.WHZ	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0
16202.WHY	400	400	400	400	400	400	400	0
16202.WHZ	200	200	200	200	200	200	200	0
16202.LLP	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0
16225.LLP	0	40	40	40	40	40	20	0
16235.WHY	300	340	300	300	300	300	300	300
16235.WHZ	300	300	300	300	300	300	300	300
16235.LLP	0	0	0	0	0	0	0	0
16270.WHY	20	20	20	20	20	20	20	20
16270.WHZ	0	0	0	0	0	0	0	0

16270.LLP	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10
16280.WHZ	10	10	20	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0
16287.WHY	2400	1200	1200	2400	2400	2250	2250	2250
16287.WHZ	1800	1800	1200	1200	1200	1200	1200	1200
16287.LLP	1350	1350	1350	1200	1200	1200	1350	1350
16362.WHY	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0
16362.LLP	20	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0
16380.WHZ	0	0	0	0	0	0	0	0
16380.LLP	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0
16385.WHZ	0	0	0	0	0	0	0	0
16385.LLP	0	0	0	0	0	0	0	0
16470.WHY	30	30	0	0	30	30	30	30
16470.WHZ	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0
16492.WHY	40	40	40	40	40	60	60	60
16492.WHZ	0	0	0	0	0	0	20	20
16492.LLP	0	0	0	0	0	0	0	0
16510.WHY	150	100	0	100	100	100	100	100
16510.WHZ	200	150	150	150	150	150	150	150
16510.LLP	0	0	0	0	0	0	0	0
16523.WHY	0	1200	0	1200	0	1300	0	1300
16523.WHZ	0	250	0	250	0	250	0	500
16523.LLP	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0
16525.WHZ	250	250	250	250	250	250	250	250
16525.LLP	5000	4000	2750	4000	15000	4000	5000	5000
16611.WHY	91	91	91	91	91	89	89	89
16611.WHZ	55	55	33	33	33	33	33	33
16611.LLP	180	60	60	60	30	30	30	30
16620.WHY	180	180	180	180	180	270	270	270
16620.WHZ	85	85	85	85	85	85	85	85
16620.LLP	0	0	0	0	0	0	0	0
16700.WHY	112	112	112	112	112	128	128	128
16700.WHZ	120	120	120	120	120	120	120	120
16700.LLP	36	36	36	36	36	36	36	0
16720.WHY	30	30	30	30	30	30	30	30
16720.WHZ	90	90	90	90	90	90	90	90
16720.LLP	0	0	0	0	0	0	0	0
19621.WHY	0	0	0	0	0	0	0	0
19621.WHZ	0	0	0	0	0	0	0	0
19621.LLP	0	0	0	0	0	0	0	0
19628.WHY	96	96	96	96	96	72	72	72
19628.WHZ	0	0	0	0	0	0	0	0
19628.LLP	0	0	0	0	0	0	0	0
19701.WHY	0	0	0	0	0	0	0	0
19701.WHZ	0	0	0	0	0	0	0	0

19701.LLP	0	0	0	0	0	0	0	0
19710.WHY	0	0	0	0	0	0	0	0
19710.WHZ	0	0	0	0	0	0	0	0
19710.LLP	0	0	0	0	0	0	0	0
19745.WHY	0	0	0	0	0	0	0	0
19745.WHZ	0	0	0	0	0	0	0	0
19745.LLP	0	0	0	0	0	0	0	0
19750.WHY	0	0	0	0	0	0	0	0
19750.WHZ	0	0	0	0	0	0	0	0
19750.LLP	0	0	0	0	0	0	0	0
+	62	69	76	83	90	97	104	111
14009.WHY	3136	3136	3136	3136	3136	3136	3136	3136
14009.WHZ	1200	1200	1200	1200	1200	1200	1200	1200
14009.LLP	1200	1200	17000	800	1000	400	1200	800
14145.WHY	400	210	400	400	400	400	400	350
14145.WHZ	200	100	200	200	200	200	200	200
14145.LLP	0	0	0	0	0	0	0	0
14262.WHY	0	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0
14262.LLP	800	800	800	800	800	800	800	800
14305.WHY	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0
14305.LLP	0	0	0	0	0	0	0	0
14340.WHY	0	0	0	0	0	0	0	0
14340.WHZ	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0
14359.WHY	10	10	10	10	0	0	10	10
14359.WHZ	0	0	0	0	0	0	0	0
14359.LLP	0	0	0	0	0	0	0	0
14370.WHY	15	15	15	15	15	15	15	15
14370.WHZ	0	0	0	0	0	0	0	0
14370.LLP	0	0	0	0	0	0	0	0
14390.WHY	0	0	0	0	0	0	0	0
14390.WHZ	500	500	500	400	500	500	450	500
14390.LLP	0	0	0	0	0	0	0	0
14565.WHY	70	40	70	70	70	70	70	100
14565.WHZ	50	50	50	50	50	50	50	50
14565.LLP	100	100	100	50	80	100	100	0
14570.WHY	700	0	700	700	700	700	700	1225
14570.WHZ	350	350	350	350	350	350	350	350
14570.LLP	350	280	350	280	280	280	350	280
14605.WHY	120	120	120	120	120	120	120	480
14605.WHZ	80	80	80	80	80	80	80	80
14605.LLP	0	0	0	0	0	0	0	0
14620.WHY	0	490	5000	4000	4000	5000	5000	4000
14620.WHZ	0	500	3000	3000	3000	3000	3000	3000
14620.LLP	0	60	60	60	80	100	100	0
14626.WHY	1250	0	0	0	0	1250	0	0
14626.WHZ	500	0	0	0	0	500	0	0
14626.LLP	0	0	0	0	0	0	0	0

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14650.WHY	600	600	600	0	0	0	0	0
14650.WHZ	400	400	400	0	0	0	0	0
14650.LLP	80	160	200	0	0	0	0	0
14892.WHY	0	0	0	0	0	0	0	0
14892.WHZ	50	250	0	0	0	250	0	0
14892.LLP	150	150	100	0	0	100	100	0
14899.WHY	240	120	240	240	240	240	240	320
14899.WHZ	80	0	80	80	80	80	80	80
14899.LLP	280	0	210	210	210	280	280	140
14938.WHY	0	0	450	450	225	225	225	441
14938.WHZ	0	0	0	0	0	0	0	0
14938.LLP	0	45	45	45	72	72	45	0
14970.WHY	1250	1250	1250	1250	1250	1250	1250	1125
14970.WHZ	1325	1325	1325	1325	1325	1325	1325	1325
14970.LLP	150	150	150	100	100	0	0	0
16007.WHY	60	60	60	60	60	60	60	60
16007.WHZ	80	80	80	80	80	80	80	80
16007.LLP	0	0	0	0	0	0	0	0
16015.WHY	300	300	300	300	300	300	300	180
16015.WHZ	0	0	0	0	0	0	0	0
16015.LLP	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	10	10
16041.WHZ	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0
16055.WHY	1100	1100	1100	1100	1020	1100	1100	1000
16055.WHZ	1000	1000	1000	1000	1000	1000	1000	1000
16055.LLP	160	200	200	160	160	160	200	160
16074.WHY	1797	549	1797	1797	1764	1797	1797	1730
16074.WHZ	2629	2629	2629	2629	2629	2629	2629	2629
16074.LLP	750	1000	9928	750	1000	1000	0	750
16077.WHY	840	910	910	910	910	910	910	910
16077.WHZ	805	875	875	875	875	875	875	875
16077.LLP	0	0	0	0	0	0	0	0
16130.WHY	440	440	440	440	440	440	440	440
16130.WHZ	300	300	300	300	300	300	300	300
16130.LLP	120	120	80	80	80	80	80	80
16140.WHY	1544	1544	1544	1544	1544	1544	1544	1580
16140.WHZ	1095	1095	1095	1095	1095	1095	1095	1095
16140.LLP	900	500	800	500	650	650	500	0
16175.WHY	200	200	200	200	200	200	200	240
16175.WHZ	300	300	300	300	300	300	300	300
16175.LLP	0	0	0	0	0	0	0	0
16184.WHY	0	0	0	0	0	0	0	0
16184.WHZ	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0
16202.WHY	400	400	0	400	400	400	400	400
16202.WHZ	200	200	0	200	200	200	200	200
16202.LLP	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0
16225.LLP	0	0	0	0	0	0	0	0

16235.WHY	300	300	300	300	300	300	300	360
16235.WHZ	300	300	300	300	300	300	300	300
16235.LLP	0	0	0	0	0	0	0	0
16270.WHY	20	20	20	0	20	0	20	20
16270.WHZ	0	0	0	0	0	0	0	0
16270.LLP	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10
16280.WHZ	10	10	10	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0
16287.WHY	2250	1050	2100	2100	2100	2100	2100	2190
16287.WHZ	1050	1050	1050	1050	1050	1050	1050	1050
16287.LLP	1350	1380	1380	1050	1110	1110	1200	1200
16362.WHY	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0
16362.LLP	0	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0
16380.WHZ	0	25	0	0	0	0	0	25
16380.LLP	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0
16385.WHZ	25	25	25	25	25	0	0	25
16385.LLP	0	0	0	0	0	0	0	0
16470.WHY	30	0	30	30	30	30	30	0
16470.WHZ	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0
16492.WHY	60	60	60	60	60	60	60	30
16492.WHZ	20	20	20	20	20	20	20	20
16492.LLP	0	0	0	0	0	0	0	0
16510.WHY	100	100	100	100	100	100	100	100
16510.WHZ	150	150	150	150	150	150	150	150
16510.LLP	0	0	0	0	0	0	0	0
16523.WHY	0	1300	1300	0	0	1300	0	0
16523.WHZ	0	500	500	0	0	500	0	0
16523.LLP	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0
16525.WHZ	250	0	250	100	0	0	250	250
16525.LLP	5000	5000	28750	4000	5000	5000	4000	4000
16611.WHY	89	45	78	78	45	78	58	69
16611.WHZ	63	63	63	63	63	48	63	63
16611.LLP	60	45	0	60	90	90	90	60
16620.WHY	270	270	270	270	270	270	270	300
16620.WHZ	25	25	25	25	25	25	25	25
16620.LLP	0	0	0	0	0	0	0	0
16700.WHY	128	128	128	128	128	128	128	128
16700.WHZ	160	160	160	160	160	160	160	160
16700.LLP	0	0	0	0	0	0	0	18
16720.WHY	30	30	30	30	30	30	30	60
16720.WHZ	90	90	90	90	0	90	90	90
16720.LLP	0	0	0	0	0	0	0	0
19621.WHY	0	0	0	0	0	0	0	0
19621.WHZ	0	0	0	0	0	0	0	0
19621.LLP	0	0	0	0	0	0	0	0

19628.WHY	72	72	72	72	72	72	72	48
19628.WHZ	0	0	0	0	0	0	0	0
19628.LLP	0	0	0	0	0	0	0	0
19701.WHY	0	0	0	0	0	0	0	0
19701.WHZ	0	0	0	0	0	0	0	0
19701.LLP	0	0	0	0	0	0	0	0
19710.WHY	0	0	0	0	0	0	0	0
19710.WHZ	0	0	0	0	0	0	0	0
19710.LLP	0	0	0	0	0	0	0	0
19745.WHY	0	0	0	0	0	0	0	0
19745.WHZ	0	0	0	0	0	0	0	0
19745.LLP	0	0	0	0	0	0	0	0
19750.WHY	0	0	0	0	0	0	0	0
19750.WHZ	0	0	0	0	0	0	0	0
19750.LLP	0	0	0	0	0	0	0	0
+	118	125	132	139	146	153	160	167
14009.WHY	3096	3096	3096	3096	1864	1864	1864	1864
14009.WHZ	1200	1600	1600	1600	1600	1600	1600	1600
14009.LLP	800	15800	800	1200	1600	1600	1600	16400
14145.WHY	150	320	320	320	250	230	250	250
14145.WHZ	100	70	80	80	80	80	80	80
14145.LLP	0	0	0	0	0	0	0	0
14262.WHY	8000	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0
14262.LLP	800	800	800	800	800	800	800	800
14305.WHY	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0
14305.LLP	0	0	0	0	0	0	120	120
14340.WHY	0	0	0	0	0	0	0	0
14340.WHZ	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0
14359.WHY	10	10	0	0	0	0	0	0
14359.WHZ	0	0	0	0	0	0	0	0
14359.LLP	0	0	0	0	0	0	0	0
14370.WHY	15	15	0	0	15	15	15	15
14370.WHZ	0	0	0	0	0	0	0	0
14370.LLP	0	0	0	0	0	0	0	0
14390.WHY	0	0	0	0	0	0	0	0
14390.WHZ	500	0	0	0	0	0	0	0
14390.LLP	0	0	0	0	0	0	0	0
14565.WHY	50	100	50	50	100	100	100	100
14565.WHZ	20	100	50	50	100	100	100	100
14565.LLP	0	50	100	50	100	100	150	100
14570.WHY	1225	700	700	700	910	910	910	910
14570.WHZ	350	525	525	525	525	525	525	525
14570.LLP	350	50	350	350	280	350	350	210
14605.WHY	480	120	120	120	80	80	80	80
14605.WHZ	80	80	40	40	40	40	40	40
14605.LLP	0	0	0	0	0	0	0	0
14620.WHY	4000	3500	3500	3500	3000	3000	3000	3000

14620.WHZ	3000	1500	1500	1500	1500	1500	1500	1500
14620.LLP	100	100	100	100	100	100	150	100
14626.WHY	0	0	0	0	0	0	0	0
14626.WHZ	0	0	0	0	0	0	0	0
14626.LLP	0	0	0	0	0	0	0	0
14650.WHY	0	400	800	800	600	600	600	0
14650.WHZ	0	200	400	400	400	400	400	0
14650.LLP	0	200	200	240	160	160	160	160
14892.WHY	0	0	0	0	0	0	0	0
14892.WHZ	0	0	0	0	0	0	375	375
14892.LLP	0	0	0	150	150	150	200	200
14899.WHY	600	320	320	320	240	240	240	240
14899.WHZ	80	160	160	160	160	160	160	160
14899.LLP	210	210	280	350	210	210	210	210
14938.WHY	450	450	450	450	50	450	450	450
14938.WHZ	0	0	0	0	0	0	0	0
14938.LLP	36	72	81	81	54	54	90	54
14970.WHY	1125	1125	750	1125	0	0	0	0
14970.WHZ	1325	1325	1325	625	0	0	0	0
14970.LLP	0	0	0	0	0	0	0	0
16007.WHY	60	60	60	0	80	80	80	80
16007.WHZ	80	80	80	0	80	80	80	80
16007.LLP	0	0	0	0	0	0	0	0
16015.WHY	180	180	120	180	180	120	180	180
16015.WHZ	0	150	150	150	150	120	150	150
16015.LLP	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	10	10
16041.WHZ	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0
16055.WHY	1000	900	700	900	700	900	900	900
16055.WHZ	1000	1000	1000	1000	800	800	0	800
16055.LLP	160	200	200	160	200	200	200	160
16074.WHY	1780	1730	1630	1730	1730	1730	1730	1730
16074.WHZ	2629	1957	1492	1342	1492	1492	672	1492
16074.LLP	0	8718	500	750	500	500	750	12894
16077.WHY	910	910	910	910	350	875	875	875
16077.WHZ	875	875	875	875	0	0	0	0
16077.LLP	0	0	35	0	70	70	70	70
16130.WHY	440	440	440	440	440	440	440	440
16130.WHZ	300	300	300	300	300	300	300	300
16130.LLP	100	100	100	100	120	120	120	120
16140.WHY	1580	1580	1580	1580	1580	1580	1580	1580
16140.WHZ	1095	1095	1095	1095	1095	1095	1095	1095
16140.LLP	500	500	500	500	500	500	700	500
16175.WHY	240	240	240	240	240	240	240	240
16175.WHZ	300	300	300	300	300	300	300	300
16175.LLP	0	0	0	0	0	0	0	0
16184.WHY	60	100	90	100	90	100	100	50
16184.WHZ	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0
16202.WHY	400	400	400	400	400	400	400	640

16202.WHZ	200	200	200	80	80	80	80	80
16202.LLP	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0
16225.LLP	0	0	0	0	0	0	0	0
16235.WHY	360	300	300	300	300	300	300	300
16235.WHZ	300	300	300	300	300	300	300	300
16235.LLP	0	30	30	0	0	0	0	0
16270.WHY	20	20	0	0	0	0	0	0
16270.WHZ	0	0	0	0	0	0	0	0
16270.LLP	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10
16280.WHZ	10	10	10	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0
16287.WHY	2250	2250	2250	2250	2100	2100	2100	2100
16287.WHZ	1050	1050	1050	1050	1050	1050	1050	1050
16287.LLP	1200	1350	1350	1350	1260	1500	1500	1500
16362.WHY	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0
16362.LLP	0	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0
16380.WHZ	0	25	25	0	25	0	0	0
16380.LLP	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0
16385.WHZ	25	25	25	25	25	25	25	25
16385.LLP	0	0	0	0	0	0	0	0
16470.WHY	30	30	0	0	0	0	0	0
16470.WHZ	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0
16492.WHY	30	20	20	20	30	30	30	30
16492.WHZ	20	0	0	0	0	0	0	0
16492.LLP	0	0	0	0	0	0	0	0
16510.WHY	200	150	150	150	150	150	150	150
16510.WHZ	150	150	150	0	0	0	0	0
16510.LLP	0	0	0	0	0	0	0	0
16523.WHY	0	1000	1000	1000	1100	0	500	1100
16523.WHZ	0	500	500	500	500	0	500	0
16523.LLP	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0
16525.WHZ	250	0	0	0	0	0	0	0
16525.LLP	3750	33750	3750	5000	4000	5000	4000	34000
16611.WHY	36	69	69	69	25	25	25	25
16611.WHZ	41	33	33	33	0	0	0	0
16611.LLP	60	90	90	90	90	0	0	0
16620.WHY	300	270	0	270	240	240	240	240
16620.WHZ	25	25	50	0	0	0	0	0
16620.LLP	0	0	0	0	0	0	0	0
16700.WHY	128	128	128	128	128	128	128	128
16700.WHZ	160	160	160	160	160	160	160	160
16700.LLP	18	18	18	18	0	0	0	0
16720.WHY	60	60	0	60	30	30	30	30

16720.WHZ	90	30	30	30	30	30	30	30
16720.LLP	0	0	0	0	0	0	0	0
19621.WHY	0	0	0	0	0	0	0	0
19621.WHZ	0	0	0	0	0	0	0	0
19621.LLP	0	0	0	0	0	0	0	0
19628.WHY	48	48	48	48	72	72	72	72
19628.WHZ	0	0	0	0	0	0	0	0
19628.LLP	0	0	0	0	0	0	0	0
19701.WHY	0	0	0	0	0	0	0	0
19701.WHZ	0	0	0	0	0	0	0	0
19701.LLP	0	0	0	0	0	0	0	0
19710.WHY	0	0	0	0	0	0	0	0
19710.WHZ	0	0	0	0	0	0	0	0
19710.LLP	0	0	0	0	0	0	0	0
19745.WHY	0	0	0	0	0	0	0	0
19745.WHZ	0	0	0	0	0	0	0	0
19745.LLP	0	0	0	0	0	0	0	0
19750.WHY	0	0	0	0	0	0	0	0
19750.WHZ	0	0	0	0	0	0	0	0
19750.LLP	0	0	0	0	0	0	0	0
+	174	181	188	195	202	209	216	223
14009.WHY	2500	2500	2500	2680	2536	2536	2536	2536
14009.WHZ	800	800	800	800	800	800	800	800
14009.LLP	1600	1600	1600	1600	1600	21600	2000	1600
14145.WHY	500	500	500	500	500	500	500	480
14145.WHZ	50	50	50	50	50	50	50	50
14145.LLP	0	0	0	0	0	0	0	0
14262.WHY	0	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0
14262.LLP	800	800	800	800	800	800	800	800
14305.WHY	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0
14305.LLP	120	120	120	0	0	0	0	0
14340.WHY	0	0	0	0	0	0	0	0
14340.WHZ	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0
14359.WHY	0	0	0	0	0	0	0	0
14359.WHZ	0	0	0	0	0	0	0	0
14359.LLP	0	0	0	0	0	0	0	0
14370.WHY	0	0	0	0	15	15	15	15
14370.WHZ	0	0	0	0	0	0	0	0
14370.LLP	0	0	0	0	0	0	0	0
14390.WHY	0	0	0	0	0	0	0	0
14390.WHZ	0	0	0	0	0	0	0	0
14390.LLP	0	0	0	0	0	0	0	0
14565.WHY	150	150	150	150	150	150	150	150
14565.WHZ	100	100	100	100	100	100	100	100
14565.LLP	100	100	100	100	100	100	100	100
14570.WHY	875	875	875	875	910	910	910	910
14570.WHZ	525	525	525	525	525	525	525	525

14570.LLP	210	350	350	350	350	420	420	420
14605.WHY	120	120	120	160	160	160	160	160
14605.WHZ	40	40	40	40	40	40	40	40
14605.LLP	0	0	0	0	0	0	0	0
14620.WHY	2750	2750	2750	2750	2700	2700	2700	2700
14620.WHZ	1500	1500	1500	1500	1500	1500	1500	1500
14620.LLP	100	100	40	0	0	0	0	100
14626.WHY	0	0	0	0	0	0	0	0
14626.WHZ	0	0	0	0	0	0	0	0
14626.LLP	0	0	0	0	0	0	0	0
14650.WHY	0	0	0	0	0	0	0	760
14650.WHZ	0	0	0	0	0	0	0	400
14650.LLP	120	160	160	160	160	160	120	120
14892.WHY	0	0	0	0	0	0	0	0
14892.WHZ	375	375	375	375	375	375	375	0
14892.LLP	100	150	100	100	150	150	100	100
14899.WHY	320	320	320	320	320	320	320	320
14899.WHZ	160	160	160	160	160	160	160	160
14899.LLP	210	280	210	210	280	350	280	280
14938.WHY	720	720	720	720	720	720	0	0
14938.WHZ	0	0	0	0	0	0	0	0
14938.LLP	54	54	54	54	54	0	0	0
14970.WHY	0	0	0	0	0	0	0	0
14970.WHZ	0	0	0	0	0	0	0	0
14970.LLP	0	0	0	0	0	0	0	0
16007.WHY	80	80	80	80	80	60	40	80
16007.WHZ	80	80	80	80	80	80	80	80
16007.LLP	0	0	0	0	0	0	0	0
16015.WHY	180	0	0	0	210	210	210	210
16015.WHZ	150	0	0	0	150	150	150	150
16015.LLP	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	10	10
16041.WHZ	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0
16055.WHY	900	900	900	900	900	900	900	900
16055.WHZ	800	800	800	800	800	800	800	800
16055.LLP	160	200	200	200	100	240	240	240
16074.WHY	1715	1715	1715	1715	1763	1763	1763	1763
16074.WHZ	742	1142	1142	1142	1142	992	942	1142
16074.LLP	750	750	750	750	750	750	750	750
16077.WHY	875	875	875	875	875	805	735	875
16077.WHZ	0	0	0	0	0	0	0	0
16077.LLP	70	70	70	70	70	70	70	70
16130.WHY	0	300	400	400	400	400	400	400
16130.WHZ	300	300	300	300	300	300	300	200
16130.LLP	120	120	120	120	120	160	160	160
16140.WHY	1466	1466	1466	1466	1516	1516	1516	1516
16140.WHZ	1095	1095	1095	1095	1095	1095	1095	1095
16140.LLP	500	750	600	600	600	700	1900	700
16175.WHY	240	240	240	240	240	240	240	240
16175.WHZ	300	300	300	300	300	300	300	300

16175.LLP	0	0	0	0	0	0	0	0
16184.WHY	200	200	200	0	100	170	150	200
16184.WHZ	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0
16202.WHY	560	560	560	560	560	560	560	560
16202.WHZ	80	80	80	80	80	80	80	80
16202.LLP	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0
16225.LLP	0	0	0	0	0	0	0	0
16235.WHY	360	360	360	360	360	360	360	360
16235.WHZ	300	300	300	300	300	300	300	300
16235.LLP	30	30	0	30	30	0	0	0
16270.WHY	0	0	0	0	0	0	0	0
16270.WHZ	0	0	0	0	0	0	0	0
16270.LLP	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10
16280.WHZ	10	10	10	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0
16287.WHY	2250	2250	2250	2250	2250	2250	2250	2250
16287.WHZ	1050	1050	1050	1050	1050	1050	1050	1050
16287.LLP	1500	1500	1500	1500	1500	1500	1500	1500
16362.WHY	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0
16362.LLP	0	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0
16380.WHZ	0	0	0	0	0	0	0	0
16380.LLP	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0
16385.WHZ	25	25	25	25	25	25	0	25
16385.LLP	0	0	0	0	0	0	0	0
16470.WHY	0	0	0	0	0	0	0	0
16470.WHZ	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0
16492.WHY	30	30	30	30	30	30	30	30
16492.WHZ	0	0	0	0	0	0	0	0
16492.LLP	0	0	0	0	0	0	0	0
16510.WHY	200	200	200	200	200	0	0	0
16510.WHZ	0	0	0	0	0	0	0	0
16510.LLP	0	0	0	0	0	0	0	0
16523.WHY	0	750	750	0	0	750	750	0
16523.WHZ	0	0	0	0	0	0	0	0
16523.LLP	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0
16525.WHZ	0	0	0	0	0	0	0	0
16525.LLP	4000	4000	4000	5000	5000	29000	4000	4000
16611.WHY	69	69	25	69	94	50	94	44
16611.WHZ	33	33	0	33	33	0	33	33
16611.LLP	60	60	60	60	90	120	120	0
16620.WHY	270	270	270	270	240	150	150	240
16620.WHZ	0	0	0	0	0	0	0	0

16620.LLP	0	0	0	0	0	0	0	0
16700.WHY	144	144	144	160	160	160	160	160
16700.WHZ	160	160	160	160	160	160	160	160
16700.LLP	0	0	0	0	0	0	0	0
16720.WHY	90	90	0	90	60	60	0	60
16720.WHZ	30	30	0	30	30	30	0	30
16720.LLP	0	0	0	0	0	0	0	0
19621.WHY	0	0	0	0	0	0	0	0
19621.WHZ	0	0	0	0	0	0	0	0
19621.LLP	0	0	0	0	0	0	0	0
19628.WHY	96	96	96	120	120	120	120	120
19628.WHZ	0	0	0	0	0	0	0	0
19628.LLP	0	0	0	0	0	0	0	0
19701.WHY	0	0	0	0	0	0	0	0
19701.WHZ	0	0	0	0	0	0	0	0
19701.LLP	0	0	0	0	0	0	0	0
19710.WHY	0	0	0	0	0	0	0	0
19710.WHZ	0	0	0	0	0	0	0	0
19710.LLP	0	0	0	0	0	0	0	0
19745.WHY	0	0	0	0	0	0	0	0
19745.WHZ	0	0	0	0	0	0	0	0
19745.LLP	0	0	0	0	0	0	0	0
19750.WHY	0	0	0	0	0	0	0	0
19750.WHZ	0	0	0	0	0	0	0	0
19750.LLP	0	0	0	0	0	0	0	0
+	230	237	244	251	258	265	272	279
14009.WHY	1936	2680	2680	3000	3000	3000	3000	3000
14009.WHZ	800	800	800	800	800	800	1200	1200
14009.LLP	1600	1400	1400	11200	0	0	1200	0
14145.WHY	500	560	560	560	560	560	560	560
14145.WHZ	50	50	50	50	50	50	50	50
14145.LLP	0	0	0	0	0	0	0	0
14262.WHY	0	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0
14262.LLP	800	800	800	800	800	800	800	800
14305.WHY	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0
14305.LLP	0	0	0	0	0	0	0	0
14340.WHY	0	0	0	0	0	0	0	0
14340.WHZ	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0
14359.WHY	0	0	0	0	0	0	0	0
14359.WHZ	0	0	0	0	0	0	0	0
14359.LLP	0	0	0	0	0	0	0	0
14370.WHY	0	0	0	0	0	0	0	0
14370.WHZ	0	0	0	0	0	0	0	0
14370.LLP	0	0	0	0	0	0	0	0
14390.WHY	0	0	0	0	0	0	0	0
14390.WHZ	0	0	0	0	0	0	0	0
14390.LLP	0	0	0	0	0	0	0	0

14565.WHY	100	120	120	120	120	120	120	130
14565.WHZ	100	100	100	100	100	100	100	100
14565.LLP	100	100	100	100	0	0	0	0
14570.WHY	280	700	700	700	525	700	700	700
14570.WHZ	525	525	525	525	525	525	525	525
14570.LLP	420	420	420	350	210	210	210	350
14605.WHY	160	200	200	200	200	200	200	240
14605.WHZ	40	40	40	40	40	40	40	40
14605.LLP	0	0	0	0	0	0	0	0
14620.WHY	2700	2750	2750	2750	2650	2720	2720	2700
14620.WHZ	1500	1500	1500	1500	1500	1500	1500	1500
14620.LLP	80	100	100	100	0	0	0	0
14626.WHY	0	0	0	0	0	0	0	0
14626.WHZ	0	0	0	0	0	0	0	0
14626.LLP	0	0	0	0	0	0	0	0
14650.WHY	760	800	800	800	800	800	800	800
14650.WHZ	400	400	400	400	400	400	400	400
14650.LLP	120	120	120	120	120	60	60	40
14892.WHY	0	0	0	0	0	0	0	0
14892.WHZ	0	250	250	250	250	250	250	225
14892.LLP	150	150	150	150	0	0	0	0
14899.WHY	0	280	280	280	120	280	280	280
14899.WHZ	160	160	160	160	80	160	0	160
14899.LLP	280	280	280	280	70	210	140	210
14938.WHY	0	0	0	0	0	0	0	0
14938.WHZ	0	0	0	0	0	0	0	0
14938.LLP	0	0	0	0	0	0	0	0
14970.WHY	0	0	0	0	0	0	0	0
14970.WHZ	0	0	0	0	0	0	0	0
14970.LLP	0	0	0	0	0	0	0	0
16007.WHY	0	60	60	60	60	60	60	40
16007.WHZ	80	80	80	80	80	20	20	20
16007.LLP	0	0	0	0	0	0	0	0
16015.WHY	210	210	210	210	210	210	210	270
16015.WHZ	150	150	150	150	150	150	150	150
16015.LLP	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	10	10
16041.WHZ	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0
16055.WHY	700	840	840	840	840	840	840	880
16055.WHZ	800	800	800	800	800	800	800	800
16055.LLP	240	280	280	280	240	240	240	240
16074.WHY	1302	1610	1610	1610	1075	1610	1610	1599
16074.WHZ	1092	1142	902	902	902	902	902	902
16074.LLP	750	750	750	5300	500	500	750	750
16077.WHY	805	875	875	875	875	875	875	875
16077.WHZ	0	0	350	350	350	350	350	350
16077.LLP	70	70	70	70	70	70	70	70
16130.WHY	200	360	360	360	300	360	360	360
16130.WHZ	200	200	200	200	200	200	200	200
16130.LLP	200	200	200	200	160	160	160	160

16140.WHY	900	1394	1394	144	1190	1394	1394	1394
16140.WHZ	1005	550	550	550	550	550	550	550
16140.LLP	700	700	700	0	500	500	500	500
16175.WHY	240	240	240	240	240	240	240	280
16175.WHZ	300	300	300	300	300	300	300	300
16175.LLP	0	0	0	0	0	0	0	0
16184.WHY	200	160	160	160	140	90	0	160
16184.WHZ	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0
16202.WHY	400	560	560	560	560	560	560	600
16202.WHZ	80	80	160	160	160	160	160	160
16202.LLP	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0
16225.LLP	0	0	0	0	0	0	0	0
16235.WHY	360	360	360	360	240	360	360	360
16235.WHZ	300	300	300	300	300	300	300	300
16235.LLP	0	0	0	0	30	0	30	60
16270.WHY	0	0	0	0	0	0	0	0
16270.WHZ	0	0	0	0	0	0	0	0
16270.LLP	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10
16280.WHZ	10	10	10	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0
16287.WHY	1950	2250	2250	2250	2250	2250	2250	2100
16287.WHZ	1050	1050	1050	1050	1050	1050	1350	1350
16287.LLP	1500	1500	1500	1500	1500	1500	1500	1200
16362.WHY	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0
16362.LLP	0	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0
16380.WHZ	25	0	0	0	0	0	0	0
16380.LLP	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0
16385.WHZ	25	25	25	25	25	25	25	25
16385.LLP	0	0	0	0	0	0	0	0
16470.WHY	0	0	0	0	0	0	0	0
16470.WHZ	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0
16492.WHY	0	30	30	30	30	30	30	20
16492.WHZ	0	0	0	0	0	0	0	0
16492.LLP	0	0	0	0	0	0	0	0
16510.WHY	200	200	200	200	200	200	200	200
16510.WHZ	0	0	0	0	0	0	0	0
16510.LLP	0	0	0	0	0	0	0	0
16523.WHY	750	600	0	600	600	600	600	600
16523.WHZ	0	0	0	0	0	0	0	0
16523.LLP	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0
16525.WHZ	0	0	0	0	0	0	0	0
16525.LLP	4000	4000	4000	17000	0	0	1250	0

16611.WHY	94	69	69	69	69	69	69	58	
16611.WHZ	33	33	33	33	33	33	33	33	
16611.LLP	90	90	90	90	0	0	0	60	
16620.WHY	0	180	180	180	180	180	180	210	
16620.WHZ	0	0	0	0	0	0	0	0	
16620.LLP	0	0	0	0	0	0	0	0	
16700.WHY	160	176	176	176	176	176	176	192	
16700.WHZ	160	160	160	160	160	160	160	160	
16700.LLP	0	0	0	0	0	0	0	0	
16720.WHY	0	30	30	30	30	30	30	30	
16720.WHZ	30	30	30	30	30	30	30	30	
16720.LLP	0	0	0	0	0	0	0	0	
19621.WHY	0	0	0	0	0	0	0	0	
19621.WHZ	0	0	0	0	0	0	0	0	
19621.LLP	0	0	0	0	0	0	0	0	
19628.WHY	0	144	144	144	144	144	144	120	
19628.WHZ	0	0	0	0	0	0	0	0	
19628.LLP	0	0	0	0	0	0	0	0	
19701.WHY	0	0	0	0	0	0	0	0	
19701.WHZ	0	0	0	0	0	0	0	0	
19701.LLP	0	0	0	0	0	0	0	0	
19710.WHY	0	0	0	0	0	0	0	0	
19710.WHZ	0	0	0	0	0	0	0	0	
19710.LLP	0	0	0	0	0	0	0	0	
19745.WHY	0	0	0	0	0	0	0	0	
19745.WHZ	0	0	0	0	0	0	0	0	
19745.LLP	0	0	0	0	0	0	0	0	
19750.WHY	0	0	0	0	0	0	0	0	
19750.WHZ	0	0	0	0	0	0	0	0	
19750.LLP	0	0	0	0	0	0	0	0	
+	286	293	300	307	314	321	328	335	342
14009.WHY	3000	3000	3060	3060	3060	2808	3180	2460	3180
14009.WHZ	1200	1200	1200	1200	1200	1200	1200	1200	1200
14009.LLP	1280	1200	1200	1200	12400	2000	2000	2000	1600
14145.WHY	560	560	700	700	700	700	650	330	650
14145.WHZ	50	50	50	50	300	300	300	200	300
14145.LLP	0	0	0	0	0	0	0	0	0
14262.WHY	0	0	0	0	0	0	0	0	0
14262.WHZ	0	0	0	0	0	0	0	0	0
14262.LLP	800	800	800	800	800	800	800	800	0
14305.WHY	0	0	0	0	0	0	0	0	0
14305.WHZ	0	0	0	0	0	0	0	0	0
14305.LLP	0	0	0	0	0	0	0	0	0
14340.WHY	0	0	18	18	18	18	0	36	36
14340.WHZ	0	0	0	0	0	0	0	0	0
14340.LLP	0	0	0	0	0	0	0	0	0
14359.WHY	0	10	10	10	10	10	10	10	10
14359.WHZ	0	0	0	0	0	0	0	0	10
14359.LLP	0	0	0	0	0	0	0	0	0
14370.WHY	0	0	15	15	15	15	15	15	15

14370.WHZ	0	0	0	0	15	15	15	15	15
14370.LLP	0	0	0	0	0	0	0	0	.0
14390.WHY	0	0	0	0	0	0	0	0	0
14390.WHZ	0	0	0	0	0	0	0	0	0
14390.LLP	0	0	0	0	0	0	0	0	0
14565.WHY	130	130	160	160	160	160	160	160	160
14565.WHZ	100	100	100	100	100	100	100	100	100
14565.LLP	0	0	0	0	0	0	0	100	0
14570.WHY	700	700	630	630	630	630	175	175	175
14570.WHZ	525	525	525	525	525	525	525	525	525
14570.LLP	350	350	350	350	350	350	350	350	350
14605.WHY	0	240	200	200	200	200	200	200	200
14605.WHZ	0	40	40	40	80	80	80	80	80
14605.LLP	0	0	0	0	0	0	0	0	0
14620.WHY	2700	0	0	0	0	0	0	0	0
14620.WHZ	1500	0	0	0	0	0	0	0	0
14620.LLP	0	0	0	0	0	0	0	0	0
14626.WHY	0	0	0	0	0	0	500	500	500
14626.WHZ	0	0	0	0	0	0	500	500	500
14626.LLP	0	0	0	0	0	0	0	0	0
14650.WHY	860	0	0	0	0	0	0	0	0
14650.WHZ	400	0	0	0	0	0	0	0	0
14650.LLP	120	0	0	0	0	0	0	0	0
14892.WHY	0	0	0	0	0	0	0	0	0
14892.WHZ	0	0	0	0	0	0	0	0	0
14892.LLP	0	0	0	0	0	0	0	0	0
14899.WHY	280	280	280	280	280	280	280	280	280
14899.WHZ	160	160	160	160	160	160	160	160	160
14899.LLP	210	210	280	280	280	280	350	350	350
14938.WHY	0	0	0	0	0	0	0	0	0
14938.WHZ	0	0	0	0	0	0	0	0	0
14938.LLP	0	0	0	0	0	0	0	0	0
14970.WHY	0	0	375	1125	1125	1125	1250	1250	1250
14970.WHZ	0	0	0	1325	2400	2400	1000	2400	2400
14970.LLP	0	0	0	0	0	0	0	150	150
16007.WHY	40	40	60	40	0	0	0	0	60
16007.WHZ	20	20	20	0	0	0	0	0	80
16007.LLP	0	0	0	0	0	0	0	0	0
16015.WHY	270	270	360	0	360	360	420	0	420
16015.WHZ	150	150	150	0	300	300	300	0	300
16015.LLP	0	0	0	0	0	0	0	0	0
16041.WHY	10	10	10	10	10	10	0	10	10
16041.WHZ	0	0	0	0	0	0	0	0	0
16041.LLP	0	0	0	0	0	0	0	0	0
16055.WHY	880	880	960	960	960	960	960	960	960
16055.WHZ	800	800	800	800	1000	1000	1000	1000	1000
16055.LLP	240	240	240	240	280	280	280	280	280
16074.WHY	1599	1599	1534	1534	1659	1534	1634	1534	1534
16074.WHZ	902	902	902	902	946	946	946	946	946
16074.LLP	750	1000	1000	1000	6846	750	500	500	750
16077.WHY	910	910	910	910	910	910	910	910	910

16077.WHZ	350	315	350	350	700	700	700	700	700
16077.LLP	0	0	0	0	0	0	0	0	0
16130.WHY	360	360	320	320	320	320	320	320	320
16130.WHZ	200	200	200	200	400	400	400	400	400
16130.LLP	160	160	160	160	160	160	300	200	200
16140.WHY	1394	1394	1680	1680	1930	1680	1716	1716	1716
16140.WHZ	550	500	500	500	1430	1430	1430	1430	1430
16140.LLP	750	750	750	750	750	900	600	750	750
16175.WHY	80	280	300	300	300	300	300	300	300
16175.WHZ	300	300	300	300	300	300	300	300	300
16175.LLP	0	0	0	0	0	0	0	0	0
16184.WHY	160	160	160	0	110	0	0	0	160
16184.WHZ	0	0	0	0	0	0	0	0	0
16184.LLP	0	0	0	0	0	0	0	0	0
16202.WHY	600	600	600	600	600	600	600	0	0
16202.WHZ	160	160	160	160	400	400	400	400	400
16202.LLP	0	0	0	0	0	0	0	0	0
16225.WHY	0	0	0	0	0	0	0	0	0
16225.WHZ	0	0	0	0	0	0	0	0	0
16225.LLP	0	0	0	0	0	0	0	0	0
16235.WHY	360	360	360	360	360	360	300	300	300
16235.WHZ	300	300	300	300	600	600	600	600	600
16235.LLP	60	60	60	60	0	60	60	60	0
16270.WHY	0	0	0	0	0	0	0	0	0
16270.WHZ	0	0	0	0	0	0	0	0	0
16270.LLP	0	0	0	0	0	0	0	0	0
16280.WHY	10	10	10	10	10	10	10	10	10
16280.WHZ	10	10	10	10	10	10	10	10	10
16280.LLP	0	0	0	0	0	0	0	0	0
16287.WHY	2100	2100	2550	2550	2550	2550	2550	2550	2550
16287.WHZ	1350	1350	1350	1350	1500	1500	1500	1500	1500
16287.LLP	1200	1500	1500	1500	1650	1800	1800	1800	1650
16362.WHY	0	0	0	0	0	0	0	0	0
16362.WHZ	0	0	0	0	0	0	0	0	0
16362.LLP	0	0	0	0	0	0	0	0	0
16380.WHY	0	0	0	0	0	0	0	0	0
16380.WHZ	0	0	0	0	25	0	0	0	0
16380.LLP	0	0	0	0	0	0	0	0	0
16385.WHY	0	0	0	0	0	0	0	0	0
16385.WHZ	25	25	25	25	25	25	25	25	25
16385.LLP	0	0	0	0	0	0	0	0	0
16470.WHY	0	0	0	0	0	0	0	0	0
16470.WHZ	0	0	0	0	0	0	0	0	0
16470.LLP	0	0	0	0	0	0	0	0	0
16492.WHY	20	20	40	40	40	40	40	40	40
16492.WHZ	0	0	0	0	0	0	0	0	0
16492.LLP	0	0	0	0	0	0	0	0	0
16510.WHY	150	150	300	300	400	300	400	400	400
16510.WHZ	0	0	0	0	0	0	0	0	0
16510.LLP	0	0	0	0	0	0	0	0	0
16523.WHY	600	600	400	400	400	400	200	0	0

16523.WHZ	0	0	0	0	0	0	0	0	0
16523.LLP	0	0	0	0	0	0	0	0	0
16525.WHY	0	0	0	0	0	0	0	0	0
16525.WHZ	0	0	0	0	0	0	0	0	0
16525.LLP	1500	4000	4000	5000	34000	5000	2500	4000	4000
16611.WHY	58	58	94	94	94	94	116	66	66
16611.WHZ	33	33	33	33	33	33	33	33	33
16611.LLP	60	0	60	60	60	60	60	90	90
16620.WHY	210	210	240	240	240	0	240	240	240
16620.WHZ	0	25	25	25	25	25	25	25	25
16620.LLP	0	0	0	0	0	0	0	0	0
16700.WHY	192	192	192	192	192	192	208	208	208
16700.WHZ	160	160	160	160	160	160	160	160	160
16700.LLP	0	0	0	0	0	0	0	0	0
16720.WHY	30	30	30	30	30	30	30	30	30
16720.WHZ	30	30	30	30	30	30	30	30	30
16720.LLP	0	0	0	0	0	0	0	0	0
19621.WHY	0	0	50	50	50	50	0	0	0
19621.WHZ	0	0	0	0	0	0	0	0	0
19621.LLP	0	0	0	0	0	0	0	0	0
19628.WHY	120	120	144	144	96	144	144	144	144
19628.WHZ	0	0	0	0	48	48	48	48	48
19628.LLP	0	0	0	0	0	0	0	0	0
19701.WHY	0	0	24	24	24	24	50	50	50
19701.WHZ	0	0	0	0	0	0	0	0	0
19701.LLP	0	0	0	0	0	0	0	0	0
19710.WHY	0	0	200	200	200	200	200	200	200
19710.WHZ	0	0	0	0	50	50	50	50	50
19710.LLP	0	0	0	0	0	0	0	0	0
19745.WHY	0	0	24	24	24	24	0	0	0
19745.WHZ	0	0	0	0	48	48	0	0	0
19745.LLP	0	0	0	0	0	0	0	0	0
19750.WHY	0	0	48	48	48	48	0	0	0
19750.WHZ	0	0	0	0	24	24	0	0	0
19750.LLP	0	0	0	0	0	0	0	0	0

;

INCLUDE   /HOME/STROUDS/V_G_POSS.TXT

TABLE

POSSIBLE(k,v)

	A1	A2	A3	B1	B2	3	C1	D1
14009	1	1	1	0	0	0	0	0
14145	1	0	0	0	0	0	0	0
14262	0	0	0	0	0	0	0	0
14305	1	1	0	0	0	1	0	0
14340	0	1	0	1	0	0	0	1
14359	1	1	0	0	0	0	0	1
14370	0	0	0	0	0	0	0	1
14390	0	0	0	0	0	0	0	1
14565	0	1	0	1	1	0	0	0
14570	0	0	0	0	0	0	0	1
14605	0	0	0	0	0	0	0	1
14620	0	0	0	0	0	0	0	0
14626	0	0	0	0	0	0	0	1
14650	1	1	0	1	0	0	0	0
14892	1	1	0	1	1	0	0	0
14899	0	0	0	0	0	0	0	0
14938	1	1	0	0	0	1	0	0
14970	0	0	0	0	0	0	0	1
16007	1	0	0	1	1	0	0	0
16015	1	0	0	1	0	0	0	0
16041	0	0	0	1	1	0	0	0
16055	1	0	0	1	1	1	0	0
16074	0	0	0	1	1	0	0	0
16077	0	1	0	1	1	0	0	0
16130	1	0	0	1	1	0	0	0
16140	1	1	0	1	1	0	0	1
16175	0	0	0	0	0	0	0	0
16184	0	0	0	0	0	0	0	0
16202	1	0	0	1	1	1	0	1
16225	0	0	0	0	0	0	0	0
16235	0	0	0	0	0	0	1	1
16270	0	0	0	1	0	0	0	0
16280	0	0	0	1	1	0	0	0
16287	1	1	1	1	1	0	0	0
16362	1	1	0	1	0	0	0	0
16380	0	0	0	1	0	0	0	0
16385	0	0	0	0	0	0	1	0
16470	0	0	0	1	1	0	0	0
16492	0	0	0	0	0	0	0	0
16510	0	0	0	0	0	0	0	0
16523	0	0	0	1	0	0	0	1
16525	0	0	0	0	0	0	0	0
16611	0	0	0	1	1	0	0	0
16620	0	0	0	1	1	0	0	0

16700	0	0	0	1	1	0	0	0
16720	0	0	0	0	0	0	0	1
19621	0	0	0	0	0	0	0	1
19628	0	0	0	0	0	0	0	1
19701	0	0	0	0	0	0	0	1
19710	0	0	0	0	0	0	0	1
19745	0	0	0	0	0	0	0	1
19750	0	0	0	0	0	0	0	1

+	D2	D3	D4	E1	E2	F1	F2	F3
14009	0	0	0	0	0	0	0	0
14145	0	0	0	0	0	0	0	0
14262	0	0	0	0	0	1	1	0
14305	0	0	0	0	0	0	0	0
14340	0	0	0	0	0	0	0	0
14359	0	0	0	0	0	1	0	0
14370	0	0	0	0	0	0	0	0
14390	0	0	0	0	0	1	1	0
14565	0	0	0	0	0	0	0	0
14570	1	0	0	0	0	1	1	0
14605	0	0	0	0	0	1	1	0
14620	0	0	0	0	0	1	1	0
14626	0	0	0	0	0	0	0	0
14650	0	0	0	0	0	0	0	0
14892	0	0	0	0	0	0	0	0
14899	0	0	0	0	0	1	0	0
14938	0	0	0	0	0	0	0	0
14970	1	0	0	0	0	1	0	0
16007	0	0	0	0	0	0	0	0
16015	0	0	0	0	0	0	0	0
16041	0	0	0	0	0	0	0	0
16055	0	0	0	0	0	0	0	0
16074	0	0	0	0	0	0	0	0
16077	0	0	0	0	0	0	0	0
16130	0	0	0	0	0	0	0	0
16140	0	0	0	0	0	0	0	0
16175	0	0	0	1	0	0	1	0
16184	0	0	0	0	0	1	1	0
16202	0	0	0	1	0	0	0	0
16225	0	0	0	0	0	1	0	0
16235	0	0	0	0	0	1	0	0
16270	0	0	0	0	0	0	0	0
16280	0	0	0	0	0	0	0	0
16287	0	0	0	0	0	0	0	0
16362	0	0	0	0	0	0	0	0
16380	0	0	0	1	0	1	0	0
16385	0	0	0	0	0	0	0	0
16470	0	0	0	0	0	0	0	0
16492	0	0	0	1	0	1	1	0
16510	0	0	0	1	0	0	1	0
16523	0	0	0	1	0	1	1	0

16525	0	0	0	1	1	0	1	0
16611	0	0	0	1	0	0	0	0
16620	0	0	0	0	0	0	0	0
16700	0	0	0	0	0	0	0	0
16720	0	0	0	1	0	1	1	0
19621	0	0	0	0	0	0	0	0
19628	0	0	0	0	0	0	0	0
19701	0	0	0	0	0	0	0	0
19710	0	1	0	0	0	0	0	0
19745	0	0	0	0	0	0	0	0
19750	0	0	0	0	0	0	0	0

;

APPENDIX C. VAN LOADS USING AGGREGATED DEMAND DATA

```
*----------------GAMS AND DOLLAR CONTROL OPTIONS------------------------------

$OFFUPPER    OFFSYMLIST    OFFSYMXREF

OPTIONS
         LIMCOL = 0,    LIMROW = 0,       SOLPRINT = OFF,   DECIMALS = 2

*------------------------------------------------------------------------------

$INCLUDE TRYSET.TXT
$INCLUDE TRYWT.TXT
$INCLUDE TRYCUBE.TXT
$INCLUDE DEMAND.TXT
$INCLUDE TRYPOSS.TXT

*------------------------------------------------------------------------------

POSITIVE VARIABLES
     X(v,d,k)              AMOUNT OF k TO PUT IN VAN TYPE v TO DESITNATION d;

INTEGER VARIABLES
     Y(v,d)                NUMBER OF VAN TYPE v NEEDED FOR DESTINATION d;

VARIABLES
     TOTVANS               TOTAL NUMBER OF VANS NEEDED;

EQUATIONS
     OBJ                   TOTAL VANS NEEDED
     WT(v,d)               WEIGHT CONSTRAINTS
     CB(v,d)               CUBIC FEET CONSTRAINTS
     ORDER(k,d)            DEMAND CONSTRAINTS
     NUMVAN(v,d)           NUMBER OF VAN TYPE v NEEDED
     TOTAL                 TOTAL DEMAND EQUALS TOTAL PACKED;
*------------------------------------------------------------------------------

OBJ..            TOTVANS =E= SUM((v,d), Y(v,d));
WT(v,d)..        SUM((k), X(v,d,k) * WEIGHT(k) * POSSIBLE(k,v)) =L= 55400 * Y(v,d);
CB(v,d)..        SUM((k), X(v,d,k) * CUBES(k) * POSSIBLE(k,v)) =L= 2004 * Y(v,d);
ORDER(k,d)..     SUM((v), X(v,d,k) * POSSIBLE(k,v)) =G= DEMAND(k,d);
NUMVAN(v,d)..    SUM((k), X(v,d,k) * WEIGHT(k)) =L= Y(v,d) * 55000;
TOTAL..          SUM((k,v,d), X(v,d,k)) =E= SUM((k,d), DEMAND(k,d));

*------------------------------------------------------------------------------
MODEL VANS /ALL/
SOLVE VANS USING MIP MINIMIZING TOTVANS;
DISPLAY TOTVANS.L, X.L, Y.L;
*------------------------------------------------------------------------------
```

INCLUDE   C:\GAMS\TRYSET.TXT

SETS

d demands

/ Guam,   Korea,   Okinawa   /

k commodity

/ 14009,   14145,   14262,   14305,   14330,   14340,   14359,
  14370,   14390,   14565,   14570,   14605,   14620,   14626,
  14650,   14830,   14892,   14899,   14938,   14970,   14977,
  16007,   16015,   16041,   16055,   16074,   16077,   16130,
  16140,   16175,   16184,   16202,   16225,   16235,   16264,
  16270,   16280,   16287,   16362,   16380,   16385,   16470,
  16492,   16510,   16523,   16525,   16611,   16620,   16700,
  16720,   16813,   19621,   19628,   19701,   19710,   19745,
  19750 /

v vans

/ A1, A2, B1, B2, B3, C1, D1, D2, E1, F1, F2 /

;

INCLUDE   C:\GAMS\TRYWT.TXT

PARAMETER

WEIGHT (k)

```
/  14009    1
   14145    1
   14262    1
   14305    1
   14330    1
   14340    1
   14359    1
   14370    1
   14390    1
   14565    1
   14570    1
   14605    1
   14620    1
   14626    1
   14650    1
   14830    1
   14892    1
   14899    1
   14938    1
   14970    1
   14977    1
   16007    1
   16015    1
   16041    1
   16055    1
   16074    1
   16077    1
   16130    1
   16140    1
   16175    1
   16184    1
   16202    1
   16225    1
   16235    1
   16264    1
   16270    1
   16280    1
   16287    1
   16362    1
   16380    1
   16385    1
   16470    1
   16492    1
   16510    1
   16523    1
```

```
16525    1
16611    1
16620    1
16700    1
16720    1
16813    1
19621    1
19628    1
19701    1
19710    1
19745    1
19750    1 /

;
```

INCLUDE   C:\GAMS\TRYCUBE.TXT

PARAMETER

CUBES(k)

```
/  14009    0.3800
   14145    0.1500
   14262    0.0450
   14305    0.0722
   14330    0.0575
   14340    0.0750
   14359    0.0620
   14370    0.0333
   14390    0.0433
   14565    0.1340
   14570    0.0371
   14605    0.0250
   14620    0.0620
   14626    0.0520
   14650    0.0650
   14830    0.0620
   14892    0.0520
   14899    0.0650
   14938    0.0556
   14970    0.0520
   14977    0.0456
   16007    0.1000
   16015    0.0800
   16041    0.1000
   16055    0.1100
   16074    0.0909
   16077    0.0629
   16130    0.1130
   16140    0.0667
   16175    0.0500
   16184    0.1000
   16202    0.0250
   16225    0.0650
   16235    0.0920
   16264    0.1000
   16270    0.0500
   16280    0.1000
   16287    0.0833
   16362    0.2200
   16380    0.0056
   16385    0.1000
   16470    0.0033
   16492    0.0100
   16510    0.0400
   16523    0.0360
```

```
16525    0.0306
16611    0.0909
16620    0.0400
16700    0.1775
16720    0.0333
16813    0.1000
19621    0.0300
19628    0.0300
19701    0.0417
19710    0.0200
19745    0.0417
19750    0.0417  /

;
```

INCLUDE   C:\GAMS\DEMAND.TXT

TABLE

DEMAND(k,d)

	GUAM	KOREA	OKINAWA
14009	510352	508514	0
14145	105294	0	0
14262	47040	0	0
14305	600	0	0
14330	0	360	0
14340	144	144	0
14359	190	0	0
14370	570	0	0
14390	55620	54000	56520
14565	12150	1820	0
14570	73080	61285	58310
14605	10480	920	10520
14620	170070	3300	600
14626	343785	1261862	320040
14650	39320	35850	0
14830	0	0	100
14892	44350	23750	0
14899	29750	0	0
14938	11052	0	0
14970	69525	60085	0
14977	276800	7924	482400
16007	5420	440	10020
16015	16170	0	7800
16041	480	0	0
16055	97060	12200	42200
16074	227796	142964	0
16077	320260	202185	0
16130	39940	5020	48220
16140	154346	139400	135690
16175	26600	0	0
16184	167430	0	11400
16202	30280	0	14520
16225	220	0	0
16235	32980	340	0
16264	0	2350	0
16270	320	0	0
16280	990	0	0
16287	254928	392730	473010
16362	20	0	0
16380	175	0	0
16385	564546	413830	600
16470	5670	0	2780
16492	2910	0	0
16510	11100	290	0

16523	30200	0	450
16525	1031150	1320850	0
16611	8046	2008	0
16620	11890	275	0
16700	15270	0	0
16720	25010	420	14445
16813	222050	0	0
19621	200	0	0
19628	5040	0	0
19701	246	0	0
19710	1640	0	0
19745	192	0	0
19750	240	0	0

;

INCLUDE   C:\GAMS\TRYPOSS.TXT

TABLE

POSSIBLE(k,v)

	A1	A2	B1	B2	B3	C1	D1	D2	E1	F1	F2
14009	1	1	0	0	0	0	0	0	0	0	0
14145	1	0	0	0	0	0	0	0	0	0	0
14262	0	0	0	0	0	0	0	0	0	1	1
14305	1	1	0	0	1	0	0	0	0	0	0
14330	0	0	0	0	0	0	1	1	0	0	0
14340	0	1	1	0	0	0	1	0	0	0	0
14359	1	1	0	0	0	0	1	0	0	1	0
14370	0	0	0	0	0	0	1	0	0	0	0
14390	0	0	0	0	0	0	1	0	0	1	1
14565	0	1	1	1	0	0	0	0	0	0	0
14570	0	0	0	0	0	0	1	1	0	1	1
14605	0	0	0	0	0	0	1	0	0	1	1
14620	0	0	0	0	0	0	0	0	0	1	1
14626	0	0	0	0	0	0	1	0	0	0	0
14650	1	1	1	0	0	0	0	0	0	0	0
14830	0	0	0	0	0	0	0	0	0	1	1
14892	1	1	1	1	0	0	0	0	0	0	0
14899	0	0	0	0	0	0	0	0	0	1	0
14938	1	1	0	0	1	0	0	0	0	0	0
14970	0	0	0	0	0	0	1	1	0	1	0
14977	0	0	0	1	0	0	0	0	0	1	1
16007	1	0	1	1	0	0	0	0	0	0	0
16015	1	0	1	0	0	0	0	0	0	0	0
16041	0	0	1	1	0	0	0	0	0	0	0
16055	1	0	1	1	1	0	0	0	0	0	0
16074	0	0	1	1	0	0	0	0	0	0	0
16077	0	1	1	1	0	0	0	0	0	0	0
16130	1	0	1	1	0	0	0	0	0	0	0
16140	1	1	1	1	0	0	1	0	0	0	0
16175	0	0	0	0	0	0	0	0	1	0	1
16184	0	0	0	0	0	0	0	0	0	1	1
16202	1	0	1	1	1	0	1	0	1	0	0
16225	0	0	0	0	0	0	0	0	0	1	0
16235	0	0	0	0	0	1	1	0	0	1	0
16264	0	0	0	0	0	0	0	0	1	1	1
16270	0	0	1	0	0	0	0	0	0	0	0
16280	0	0	1	1	0	0	0	0	0	0	0
16287	1	1	1	1	0	0	0	0	0	0	0
16362	1	1	1	0	0	0	0	0	0	0	0
16380	0	0	1	0	0	0	0	0	1	1	0
16385	0	0	0	0	0	1	0	0	0	0	0
16470	0	0	1	1	0	0	0	0	0	0	0
16492	0	0	0	0	0	0	0	0	1	1	1
16510	0	0	0	0	0	0	0	0	1	0	1

16523	0	0	1	0	0	0	1	0	1	1	1
16525	0	0	0	0	0	0	0	0	1	0	1
16611	0	0	1	1	0	0	0	0	1	0	0
16620	0	0	1	1	0	0	0	0	0	0	0
16700	0	0	1	1	0	0	0	0	0	0	0
16720	0	0	0	0	0	0	1	0	1	1	1
16813	0	0	0	0	0	0	0	0	0	1	1
19621	0	0	0	0	0	0	1	0	0	0	0
19628	0	0	0	0	0	0	1	0	0	0	0
19701	0	0	0	0	0	0	1	0	0	0	0
19710	0	0	0	0	0	0	1	0	0	0	0
19745	0	0	0	0	0	0	1	0	0	0	0
19750	0	0	0	0	0	0	1	0	0	0	0

;

APPENDIX D. POSSIBLE CARTS SITES USING AGGREGATED DEMAND DATA

```
*-----------------GAMS AND DOLLAR CONTROL OPTIONS----------------------------------

$OFFUPPER    OFFSYMLIST    OFFSYMXREF

OPTIONS
        LIMCOL = 0,    LIMROW = 0,       SOLPRINT = OFF,   DECIMALS = 2 ;

*---------------------------------------------------------------------------------------------

$INCLUDE SETBIG.TXT
$INCLUDE WEIGHT.TXT
$INCLUDE CUBE.TXT
$INCLUDE DEMAND.TXT
$INCLUDE TRYPOSS.TXT
$INCLUDE QUARAN.TXT
$INCLUDE COSTS.TXT
$INCLUDE TRANS.TXT
$INCLUDE SUPPLY.TXT


*---------------------------------------------------------------------------------------------


POSITIVE VARIABLES
        X(v,d,k,s)      AMOUNT OF k TO PUT IN VAN TYPE v GOING FROM s TO d;

INTEGER VARIABLES
        Y(v,d)          NUMBER OF VAN TYPE v NEEDED FOR DESTINATION d;

BINARY VARIABLES
        Z(k,s,d)        INDICATES IF SHIPMENT MADE FROM s TO d;

VARIABLES
        TOTCOST         TOTAL COST INCURRED
        TOTVANS         TOTAL NUMBER OF VANS NEEDED;

EQUATIONS
        OBJ                     MINIMAL TOTAL COST
        WT(v,d)                 WEIGHT CONSTRAINTS
        CB(v,d)                 CUBIC FEET CONSTRAINTS
        ORDER(k,d)              DEMAND CONSTRAINT
        NUMVAN(v,d)             NUMBER OF VAN TYPE v NEEDED FOR DESTINATION d
        TOTAL(k,d)              TOTAL DEMAND EQUALS TOTAL PACKED
        TOTV                    TOTAL NUMBER OF VANS NEEDED
        SHIP(k,s,d,v)           SHIP FROM s TO d
        AVAIL(s,k)              AMOUNT OF k AVAILABLE AT s;


*---------------------------------------------------------------------------------------------
```

```
OBJ..           TOTCOST =E= (8000 * SUM((v,d), Y(v,d))) + SUM((v,k,s,d), COSTS(s,k) *
                    X(v,d,k,s)) + SUM((k,s,d),  Z(k,s,d));
WT(v,d)..       SUM((k,s), X(v,d,k,s)   * POSSIBLE(k,v)) =L= 55400 * Y(v,d);
CB(v,d)..       SUM((k,s), X(v,d,k,s) * CUBES(k) * POSSIBLE (k,v)) =L= 2004 * Y(v,d);
ORDER(k,d)..    SUM((s,v), X(v,d,k,s) * POSSIBLE(k,v)) =G= DEMAND(k,d);
SHIP(k,s,d,v).. X(v,d,k,s) =L= 10000000 * Z(k,s,d);
NUMVAN(v,d)..   SUM((k,s), X(v,d,k,s) * CUBES(k)) =L= Y(v,d) * 2004;
TOTAL(k,d)..    SUM((v,s), X(v,d,k,s)) =E=  DEMAND(k,d);
TOTV..          TOTVANS =E= SUM((v,d), Y(v,d));
AVAIL(s,k)..    SUM((v,d), X(v,d,k,s)) =L= SUPPLY(s,k);


*_____


MODEL VANS /ALL/
SOLVE VANS USING MIP MINIMIZING TOTCOST;
DISPLAY TOTCOST.L, X.L, Y.L;


*_____
```

INCLUDE   C:\GAMS\SETBIG.TXT

SETS

s sources

```
/ Argentin,    Australi,     Bahamas,     Belgium,     Belize,
  Brazil,      Canada,       Chile,       China_Ma,    China_Ta,
  Colombia,    Costa_Ri,     Domin_Re,    Ecuador,     Egypt,
  El_Salva,    France,       Germany,     Greece,      Grenada,
  Guatemal,    Haiti,        Honduras,    Hong_Kon,    Hungary,
  India,       Israel,       Italy,       Jamaica,     Japan,
  Korea,       Malaysia,     Mauritiu,    Mexico,      Monaco,
  Montserr,    Morocco,      Mozambiq,    Netherla,    New_Zeal,
  Nicaragu,    Pakistan,     Panama,      Peru,        Philippi,
  Poland,      Portugal,     Singapor,    South_Af,    Spain,
  St_Lucia,    Sweden,       Switzerl,    Thailand,    Trinidad,
  Turkey,      U_Arab_E,     U_Kingdo,    Uruguay,     Venezuel,
  Yugoslav  /
```


d demands

/ Guam,   Korea,   Okinawa /

k commodity

```
/ 14009,   14145,   14262,   14305,   14330,   14340,   14359,
  14370,   14390,   14565,   14570,   14605,   14620,   14626,
  14650,   14830,   14892,   14899,   14938,   14970,   14977,
  16007,   16015,   16041,   16055,   16074,   16077,   16130,
  16140,   16175,   16184,   16202,   16225,   16235,   16264,
  16270,   16280,   16287,   16362,   16380,   16385,   16470,
  16492,   16510,   16523,   16525,   16611,   16620,   16700,
  16720,   16813,   19621,   19628,   19701,   19710,   19745,
  19750  /
```

v vans

/ A1, A2, B1, B2, B3, C1, D1, D2, E1, F1, F2 /

;

INCLUDE   C:\GAMS\WEIGHT.TXT

PARAMETER

WEIGHT (k)

/	14009	1
	14145	1
	14262	1
	14305	1
	14330	1
	14340	1
	14359	1
	14370	1
	14390	1
	14565	1
	14570	1
	14605	1
	14620	1
	14626	1
	14650	1
	14830	1
	14892	1
	14899	1
	14938	1
	14970	1
	14977	1
	16007	1
	16015	1
	16041	1
	16055	1
	16074	1
	16077	1
	16130	1
	16140	1
	16175	1
	16184	1
	16202	1
	16225	1
	16235	1
	16264	1
	16270	1
	16280	1
	16287	1
	16362	1
	16380	1
	16385	1
	16470	1
	16492	1
	16510	1
	16523	1

```
16525   1
16611   1
16620   1
16700   1
16720   1
16813   1
19621   1
19628   1
19701   1
19710   1
19745   1
19750   1 /
;
```

INCLUDE   C:\GAMS\CUBE.TXT

PARAMETER

CUBES(k)

/ 14009	0.38
14145	0.15
14262	0.045
14305	0.0722
14330	0.0575
14340	0.075
14359	0.062
14370	0.0333
14390	0.0433
14565	0.134
14570	0.0371
14605	0.025
14620	0.062
14626	0.052
14650	0.065
14830	0.062
14892	0.052
14899	0.065
14938	0.0556
14970	0.052
14977	0.0456
16007	0.1
16015	0.08
16041	0.1
16055	0.11
16074	0.0909
16077	0.0629
16130	0.113
16140	0.0667
16175	0.05
16184	0.1
16202	0.025
16225	0.065
16235	0.092
16264	0.1
16270	0.05
16280	0.1
16287	0.0833
16362	0.22
16380	0.0056
16385	0.1
16470	0.0033
16492	0.01
16510	0.04
16523	0.036

16525	0.0306
16611	0.0909
16620	0.04
16700	0.1775
16720	0.0333
16813	0.1
19621	0.03
19628	0.03
19701	0.0417
19710	0.02
19745	0.0417
19750	0.0417 /

;

INCLUDE   C:\GAMS\DEMAND.TXT

TABLE

DEMAND(k,d)

	GUAM	KOREA	OKINAWA
14009	510352	508514	0
14145	105294	0	0
14262	47040	0	0
14305	600	0	0
14330	0	360	0
14340	144	144	0
14359	190	0	0
14370	570	0	0
14390	55620	54000	56520
14565	12150	1820	0
14570	73080	61285	58310
14605	10480	920	10520
14620	170070	3300	600
14626	343785	1261862	320040
14650	39320	35850	0
14830	0	0	100
14892	44350	23750	0
14899	29750	0	0
14938	11052	0	0
14970	69525	60085	0
14977	276800	7924	482400
16007	5420	440	10020
16015	16170	0	7800
16041	480	0	0
16055	97060	12200	42200
16074	227796	142964	0
16077	320260	202185	0
16130	39940	5020	48220
16140	154346	139400	135690
16175	26600	0	0
16184	167430	0	11400
16202	30280	0	14520
16225	220	0	0
16235	32980	340	0
16264	0	2350	0
16270	320	0	0
16280	990	0	0
16287	254928	392730	473010
16362	20	0	0
16380	175	0	0
16385	564546	413830	600
16470	5670	0	2780
16492	2910	0	0
16510	11100	290	0

16523	30200	0	450
16525	1031150	1320850	0
16611	8046	2008	0
16620	11890	275	0
16700	15270	0	0
16720	25010	420	14445
16813	222050	0	0
19621	200	0	0
19628	5040	0	0
19701	246	0	0
19710	1640	0	0
19745	192	0	0
19750	240	0	0

;

INCLUDE   C:\GAMS\TRYPOSS.TXT

TABLE

POSSIBLE(k,v)

	A1	A2	B1	B2	B3	C1	D1	D2	E1	F1	F2
14009	1	1	0	0	0	0	0	0	0	0	0
14145	1	0	0	0	0	0	0	0	0	0	0
14262	0	0	0	0	0	0	0	0	0	1	1
14305	1	1	0	0	1	0	0	0	0	0	0
14330	0	0	0	0	0	0	1	1	0	0	0
14340	0	1	1	0	0	0	1	0	0	0	0
14359	1	1	0	0	0	0	1	0	0	1	0
14370	0	0	0	0	0	0	1	0	0	0	0
14390	0	0	0	0	0	0	1	0	0	1	1
14565	0	1	1	1	0	0	0	0	0	0	0
14570	0	0	0	0	0	0	1	1	0	1	1
14605	0	0	0	0	0	0	1	0	0	1	1
14620	0	0	0	0	0	0	0	0	0	1	1
14626	0	0	0	0	0	0	1	0	0	0	0
14650	1	1	1	0	0	0	0	0	0	0	0
14830	0	0	0	0	0	0	0	0	0	1	1
14892	1	1	1	1	0	0	0	0	0	0	0
14899	0	0	0	0	0	0	0	0	0	1	0
14938	1	1	0	0	1	0	0	0	0	0	0
14970	0	0	0	0	0	0	1	1	0	1	0
14977	0	0	0	1	0	0	0	0	0	1	1
16007	1	0	1	1	0	0	0	0	0	0	0
16015	1	0	1	0	0	0	0	0	0	0	0
16041	0	0	1	1	0	0	0	0	0	0	0
16055	1	0	1	1	1	0	0	0	0	0	0
16074	0	0	1	1	0	0	0	0	0	0	0
16077	0	1	1	1	0	0	0	0	0	0	0
16130	1	0	1	1	0	0	0	0	0	0	0
16140	1	1	1	1	0	0	1	0	0	0	0
16175	0	0	0	0	0	0	0	0	1	0	1
16184	0	0	0	0	0	0	0	0	0	1	1
16202	1	0	1	1	1	0	1	0	1	0	0
16225	0	0	0	0	0	0	0	0	0	1	0
16235	0	0	0	0	0	1	1	0	0	1	0
16264	0	0	0	0	0	0	0	0	1	1	1
16270	0	0	1	0	0	0	0	0	0	0	0
16280	0	0	1	1	0	0	0	0	0	0	0
16287	1	1	1	1	0	0	0	0	0	0	0
16362	1	1	1	0	0	0	0	0	0	0	0
16380	0	0	1	0	0	0	0	0	1	1	0
16385	0	0	0	0	0	1	0	0	0	0	0
16470	0	0	1	1	0	0	0	0	0	0	0
16492	0	0	0	0	0	0	0	0	1	1	1
16510	0	0	0	0	0	0	0	0	1	0	1

16523 0	0	1	0	0	0	1	0	1	1	1
16525 0	0	0	0	0	0	0	0	1	0	1
16611 0	0	1	1	0	0	0	0	1	0	0
16620 0	0	1	1	0	0	0	0	0	0	0
16700 0	0	1	1	0	0	0	0	0	0	0
16720 0	0	0	0	0	0	1	0	1	1	1
16813 0	0	0	0	0	0	0	0	0	1	1
19621 0	0	0	0	0	0	1	0	0	0	0
19628 0	0	0	0	0	0	1	0	0	0	0
19701 0	0	0	0	0	0	1	0	0	0	0
19710 0	0	0	0	0	0	1	0	0	0	0
19745 0	0	0	0	0	0	1	0	0	0	0
19750 0	0	0	0	0	0	1	0	0	0	0

;

INCLUDE C:\GAMS\QUARAN.TXT

TABLE

QUARAN(s,d,k)

	14009	14145	14262	14305	14330	14340	14359	14370	14390
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1

Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1

Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1

South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1

+	14565	14570	14605	14620	14626	14650	14830	14892	14899
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1

Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1

Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1

Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1

Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1
+	14938	14970	14977	16007	16015	16041	16055	16074	16077
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1

China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1

Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1

Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1

Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1
+	16130	16140	16175	16184	16202	16225	16235	16264	16270
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1

France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1

Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1

St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	·1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1
+	16280	16287	16362	16380	16385	16470	16492	16510	16523
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1

Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1

Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1
Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1

New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1
Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1

U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1

+	16525	16611	16620	16700	16720	16813	19621	19628	19701
Argentin.Guam	1	1	1	1	1	1	1	1	1
Argentin.Korea	1	1	1	1	1	1	1	1	1
Argentin.Okinawa	1	1	1	1	1	1	1	1	1
Australi.Guam	1	1	1	1	1	1	1	1	1
Australi.Korea	1	1	1	1	1	1	1	1	1
Australi.Okinawa	1	1	1	1	1	1	1	1	1
Bahamas.Guam	1	1	1	1	1	1	1	1	1
Bahamas.Korea	1	1	1	1	1	1	1	1	1
Bahamas.Okinawa	1	1	1	1	1	1	1	1	1
Belgium.Guam	1	1	1	1	1	1	1	1	1
Belgium.Korea	1	1	1	1	1	1	1	1	1
Belgium.Okinawa	1	1	1	1	1	1	1	1	1
Belize.Guam	1	1	1	1	1	1	1	1	1
Belize.Korea	1	1	1	1	1	1	1	1	1
Belize.Okinawa	1	1	1	1	1	1	1	1	1
Brazil.Guam	1	1	1	1	1	1	1	1	1
Brazil.Korea	1	1	1	1	1	1	1	1	1
Brazil.Okinawa	1	1	1	1	1	1	1	1	1
Canada.Guam	1	1	1	1	1	1	1	1	1
Canada.Korea	1	1	1	1	1	1	1	1	1
Canada.Okinawa	1	1	1	1	1	1	1	1	1
Chile.Guam	1	1	1	1	1	1	1	1	1
Chile.Korea	1	1	1	1	1	1	1	1	1
Chile.Okinawa	1	1	1	1	1	1	1	1	1
China_Ma.Guam	1	1	1	1	1	1	1	1	1
China_Ma.Korea	1	1	1	1	1	1	1	1	1
China_Ma.Okinawa	1	1	1	1	1	1	1	1	1
China_Ta.Guam	1	1	1	1	1	1	1	1	1
China_Ta.Korea	1	1	1	1	1	1	1	1	1
China_Ta.Okinawa	1	1	1	1	1	1	1	1	1
Colombia.Guam	1	1	1	1	1	1	1	1	1
Colombia.Korea	1	1	1	1	1	1	1	1	1
Colombia.Okinawa	1	1	1	1	1	1	1	1	1
Costa_Ri.Guam	1	1	1	1	1	1	1	1	1
Costa_Ri.Korea	1	1	1	1	1	1	1	1	1

Costa_Ri.Okinawa	1	1	1	1	1	1	1	1	1
Domin_Re.Guam	1	1	1	1	1	1	1	1	1
Domin_Re.Korea	1	1	1	1	1	1	1	1	1
Domin_Re.Okinawa	1	1	1	1	1	1	1	1	1
Ecuador.Guam	1	1	1	1	1	1	1	1	1
Ecuador.Korea	1	1	1	1	1	1	1	1	1
Ecuador.Okinawa	1	1	1	1	1	1	1	1	1
Egypt.Guam	1	1	1	1	1	1	1	1	1
Egypt.Korea	1	1	1	1	1	1	1	1	1
Egypt.Okinawa	1	1	1	1	1	1	1	1	1
El_Salva.Guam	1	1	1	1	1	1	1	1	1
El_Salva.Korea	1	1	1	1	1	1	1	1	1
El_Salva.Okinawa	1	1	1	1	1	1	1	1	1
France.Guam	1	1	1	1	1	1	1	1	1
France.Korea	1	1	1	1	1	1	1	1	1
France.Okinawa	1	1	1	1	1	1	1	1	1
Germany.Guam	1	1	1	1	1	1	1	1	1
Germany.Korea	1	1	1	1	1	1	1	1	1
Germany.Okinawa	1	1	1	1	1	1	1	1	1
Greece.Guam	1	1	1	1	1	1	1	1	1
Greece.Korea	1	1	1	1	1	1	1	1	1
Greece.Okinawa	1	1	1	1	1	1	1	1	1
Grenada.Guam	1	1	1	1	1	1	1	1	1
Grenada.Korea	1	1	1	1	1	1	1	1	1
Grenada.Okinawa	1	1	1	1	1	1	1	1	1
Guatemal.Guam	1	1	1	1	1	1	1	1	1
Guatemal.Korea	1	1	1	1	1	1	1	1	1
Guatemal.Okinawa	1	1	1	1	1	1	1	1	1
Haiti.Guam	1	1	1	1	1	1	1	1	1
Haiti.Korea	1	1	1	1	1	1	1	1	1
Haiti.Okinawa	1	1	1	1	1	1	1	1	1
Honduras.Guam	1	1	1	1	1	1	1	1	1
Honduras.Korea	1	1	1	1	1	1	1	1	1
Honduras.Okinawa	1	1	1	1	1	1	1	1	1
Hong_Kon.Guam	1	1	1	1	1	1	1	1	1
Hong_Kon.Korea	1	1	1	1	1	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1	1	1	1	1	1
Hungary.Guam	1	1	1	1	1	1	1	1	1
Hungary.Korea	1	1	1	1	1	1	1	1	1
Hungary.Okinawa	1	1	1	1	1	1	1	1	1
India.Guam	1	1	1	1	1	1	1	1	1
India.Korea	1	1	1	1	1	1	1	1	1
India.Okinawa	1	1	1	1	1	1	1	1	1
Israel.Guam	1	1	1	1	1	1	1	1	1
Israel.Korea	1	1	1	1	1	1	1	1	1
Israel.Okinawa	1	1	1	1	1	1	1	1	1
Italy.Guam	1	1	1	1	1	1	1	1	1
Italy.Korea	1	1	1	1	1	1	1	1	1
Italy.Okinawa	1	1	1	1	1	1	1	1	1
Jamaica.Guam	1	1	1	1	1	1	1	1	1
Jamaica.Korea	1	1	1	1	1	1	1	1	1

Jamaica.Okinawa	1	1	1	1	1	1	1	1	1
Japan.Guam	1	1	1	1	1	1	1	1	1
Japan.Korea	1	1	1	1	1	1	1	1	1
Japan.Okinawa	1	1	1	1	1	1	1	1	1
Korea.Guam	1	1	1	1	1	1	1	1	1
Korea.Korea	1	1	1	1	1	1	1	1	1
Korea.Okinawa	1	1	1	1	1	1	1	1	1
Malaysia.Guam	1	1	1	1	1	1	1	1	1
Malaysia.Korea	1	1	1	1	1	1	1	1	1
Malaysia.Okinawa	1	1	1	1	1	1	1	1	1
Mauritiu.Guam	1	1	1	1	1	1	1	1	1
Mauritiu.Korea	1	1	1	1	1	1	1	1	1
Mauritiu.Okinawa	1	1	1	1	1	1	1	1	1
Mexico.Guam	1	1	1	1	1	1	1	1	1
Mexico.Korea	1	1	1	1	1	1	1	1	1
Mexico.Okinawa	1	1	1	1	1	1	1	1	1
Monaco.Guam	1	1	1	1	1	1	1	1	1
Monaco.Korea	1	1	1	1	1	1	1	1	1
Monaco.Okinawa	1	1	1	1	1	1	1	1	1
Montserr.Guam	1	1	1	1	1	1	1	1	1
Montserr.Korea	1	1	1	1	1	1	1	1	1
Montserr.Okinawa	1	1	1	1	1	1	1	1	1
Morocco.Guam	1	1	1	1	1	1	1	1	1
Morocco.Korea	1	1	1	1	1	1	1	1	1
Morocco.Okinawa	1	1	1	1	1	1	1	1	1
Mozambiq.Guam	1	1	1	1	1	1	1	1	1
Mozambiq.Korea	1	1	1	1	1	1	1	1	1
Mozambiq.Okinawa	1	1	1	1	1	1	1	1	1
Netherla.Guam	1	1	1	1	1	1	1	1	1
Netherla.Korea	1	1	1	1	1	1	1	1	1
Netherla.Okinawa	1	1	1	1	1	1	1	1	1
New_Zeal.Guam	1	1	1	1	1	1	1	1	1
New_Zeal.Korea	1	1	1	1	1	1	1	1	1
New_Zeal.Okinawa	1	1	1	1	1	1	1	1	1
Nicaragu.Guam	1	1	1	1	1	1	1	1	1
Nicaragu.Korea	1	1	1	1	1	1	1	1	1
Nicaragu.Okinawa	1	1	1	1	1	1	1	1	1
Pakistan,Guam	1	1	1	1	1	1	1	1	1
Pakistan.Korea	1	1	1	1	1	1	1	1	1
Pakistan.Okinawa	1	1	1	1	1	1	1	1	1
Panama.Guam	1	1	1	1	1	1	1	1	1
Panama.Korea	1	1	1	1	1	1	1	1	1
Panama.Okinawa	1	1	1	1	1	1	1	1	1
Peru.Guam	1	1	1	1	1	1	1	1	1
Peru.Korea	1	1	1	1	1	1	1	1	1
Peru.Okinawa	1	1	1	1	1	1	1	1	1
Philippi.Guam	1	1	1	1	1	1	1	1	1
Philippi.Korea	1	1	1	1	1	1	1	1	1
Philippi.Okinawa	1	1	1	1	1	1	1	1	1
Poland.Guam	1	1	1	1	1	1	1	1	1
Poland.Korea	1	1	1	1	1	1	1	1	1

Poland.Okinawa	1	1	1	1	1	1	1	1	1
Portugal.Guam	1	1	1	1	1	1	1	1	1
Portugal.Korea	1	1	1	1	1	1	1	1	1
Portugal.Okinawa	1	1	1	1	1	1	1	1	1
Singapor.Guam	1	1	1	1	1	1	1	1	1
Singapor.Korea	1	1	1	1	1	1	1	1	1
Singapor.Okinawa	1	1	1	1	1	1	1	1	1
South_Af.Guam	1	1	1	1	1	1	1	1	1
South_Af.Korea	1	1	1	1	1	1	1	1	1
South_Af.Okinawa	1	1	1	1	1	1	1	1	1
Spain.Guam	1	1	1	1	1	1	1	1	1
Spain.Korea	1	1	1	1	1	1	1	1	1
Spain.Okinawa	1	1	1	1	1	1	1	1	1
St_Lucia.Guam	1	1	1	1	1	1	1	1	1
St_Lucia.Korea	1	1	1	1	1	1	1	1	1
St_Lucia.Okinawa	1	1	1	1	1	1	1	1	1
Sweden.Guam	1	1	1	1	1	1	1	1	1
Sweden.Korea	1	1	1	1	1	1	1	1	1
Sweden.Okinawa	1	1	1	1	1	1	1	1	1
Switzerl.Guam	1	1	1	1	1	1	1	1	1
Switzerl.Korea	1	1	1	1	1	1	1	1	1
Switzerl.Okinawa	1	1	1	1	1	1	1	1	1
Thailand.Guam	1	1	1	1	1	1	1	1	1
Thailand.Korea	1	1	1	1	1	1	1	1	1
Thailand.Okinawa	1	1	1	1	1	1	1	1	1
Trinidad.Guam	1	1	1	1	1	1	1	1	1
Trinidad.Korea	1	1	1	1	1	1	1	1	1
Trinidad.Okinawa	1	1	1	1	1	1	1	1	1
Turkey.Guam	1	1	1	1	1	1	1	1	1
Turkey.Korea	1	1	1	1	1	1	1	1	1
Turkey.Okinawa	1	1	1	1	1	1	1	1	1
U_Arab_E.Guam	1	1	1	1	1	1	1	1	1
U_Arab_E.Korea	1	1	1	1	1	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1	1	1	1	1	1
U_Kingdo.Guam	1	1	1	1	1	1	1	1	1
U_Kingdo.Korea	1	1	1	1	1	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1	1	1	1	1	1
Uruguay.Guam	1	1	1	1	1	1	1	1	1
Uruguay.Korea	1	1	1	1	1	1	1	1	1
Uruguay.Okinawa	1	1	1	1	1	1	1	1	1
Venezuel.Guam	1	1	1	1	1	1	1	1	1
Venezuel.Korea	1	1	1	1	1	1	1	1	1
Venezuel.Okinawa	1	1	1	1	1	1	1	1	1
Yugoslav.Guam	1	1	1	1	1	1	1	1	1
Yugoslav.Korea	1	1	1	1	1	1	1	1	1
Yugoslav.Okinawa	1	1	1	1	1	1	1	1	1
+	19710	19745	19750	19750					
Argentin.Guam	1	1	1	1					
Argentin.Korea	1	1	1	1					
Argentin.Okinawa	1	1	1	1					

Australi.Guam	1	1	1	1
Australi.Korea	1	1	1	1
Australi.Okinawa	1	1	1	1
Bahamas.Guam	1	1	1	1
Bahamas.Korea	1	1	1	1
Bahamas.Okinawa	1	1	1	1
Belgium.Guam	1	1	1	1
Belgium.Korea	1	1	1	1
Belgium.Okinawa	1	1	1	1
Belize.Guam	1	1	1	1
Belize.Korea	1	1	1	1
Belize.Okinawa	1	1	1	1
Brazil.Guam	1	1	1	1
Brazil.Korea	1	1	1	1
Brazil.Okinawa	1	1	1	1
Canada.Guam	1	1	1	1
Canada.Korea	1	1	1	1
Canada.Okinawa	1	1	1	1
Chile.Guam	1	1	1	1
Chile.Korea	1	1	1	1
Chile.Okinawa	1	1	1	1
China_Ma.Guam	1	1	1	1
China_Ma.Korea	1	1	1	1
China_Ma.Okinawa	1	1	1	1
China_Ta.Guam	1	1	1	1
China_Ta.Korea	1	1	1	1
China_Ta.Okinawa	1	1	1	1
Colombia.Guam	1	1	1	1
Colombia.Korea	1	1	1	1
Colombia.Okinawa	1	1	1	1
Costa_Ri.Guam	1	1	1	1
Costa_Ri.Korea	1	1	1	1
Costa_Ri.Okinawa	1	1	1	1
Domin_Re.Guam	1	1	1	1
Domin_Re.Korea	1	1	1	1
Domin_Re.Okinawa	1	1	1	1
Ecuador.Guam	1	1	1	1
Ecuador.Korea	1	1	1	1
Ecuador.Okinawa	1	1	1	1
Egypt.Guam	1	1	1	1
Egypt.Korea	1	1	1	1
Egypt.Okinawa	1	1	1	1
El_Salva.Guam	1	1	1	1
El_Salva.Korea	1	1	1	1
El_Salva.Okinawa	1	1	1	1
France.Guam	1	1	1	1
France.Korea	1	1	1	1
France.Okinawa	1	1	1	1
Germany.Guam	1	1	1	1
Germany.Korea	1	1	1	1
Germany.Okinawa	1	1	1	1

Greece.Guam	1	1	1	1
Greece.Korea	1	1	1	1
Greece.Okinawa	1	1	1	1
Grenada.Guam	1	1	1	1
Grenada.Korea	1	1	1	1
Grenada.Okinawa	1	1	1	1
Guatemal.Guam	1	1	1	1
Guatemal.Korea	1	1	1	1
Guatemal.Okinawa	1	1	1	1
Haiti.Guam	1	1	1	1
Haiti.Korea	1	1	1	1
Haiti.Okinawa	1	1	1	1
Honduras.Guam	1	1	1	1
Honduras.Korea	1	1	1	1
Honduras.Okinawa	1	1	1	1
Hong_Kon.Guam	1	1	1	1
Hong_Kon.Korea	1	1	1	1
Hong_Kon.Okinawa	1	1	1	1
Hungary.Guam	1	1	1	1
Hungary.Korea	1	1	1	1
Hungary.Okinawa	1	1	1	1
India.Guam	1	1	1	1
India.Korea	1	1	1	1
India.Okinawa	1	1	1	1
Israel.Guam	1	1	1	1
Israel.Korea	1	1	1	1
Israel.Okinawa	1	1	1	1
Italy.Guam	1	1	1	1
Italy.Korea	1	1	1	1
Italy.Okinawa	1	1	1	1
Jamaica.Guam	1	1	1	1
Jamaica.Korea	1	1	1	1
Jamaica.Okinawa	1	1	1	1
Japan.Guam	1	1	1	1
Japan.Korea	1	1	1	1
Japan.Okinawa	1	1	1	1
Korea.Guam	1	1	1	1
Korea.Korea	1	1	1	1
Korea.Okinawa	1	1	1	1
Malaysia.Guam	1	1	1	1
Malaysia.Korea	1	1	1	1
Malaysia.Okinawa	1	1	1	1
Mauritiu.Guam	1	1	1	1
Mauritiu.Korea	1	1	1	1
Mauritiu.Okinawa	1	1	1	1
Mexico.Guam	1	1	1	1
Mexico.Korea	1	1	1	1
Mexico.Okinawa	1	1	1	1
Monaco.Guam	1	1	1	1
Monaco.Korea	1	1	1	1
Monaco.Okinawa	1	1	1	1

Montserr.Guam	1	1	1	1
Montserr.Korea	1	1	1	1
Montserr.Okinawa	1	1	1	1
Morocco.Guam	1	1	1	1
Morocco.Korea	1	1	1	1
Morocco.Okinawa	1	1	1	1
Mozambiq.Guam	1	1	1	1
Mozambiq.Korea	1	1	1	1
Mozambiq.Okinawa	1	1	1	1
Netherla.Guam	1	1	1	1
Netherla.Korea	1	1	1	1
Netherla.Okinawa	1	1	1	1
New_Zeal.Guam	1	1	1	1
New_Zeal.Korea	1	1	1	1
New_Zeal.Okinawa	1	1	1	1
Nicaragu.Guam	1	1	1	1
Nicaragu.Korea	1	1	1	1
Nicaragu.Okinawa	1	1	1	1
Pakistan,Guam	1	1	1	1
Pakistan.Korea	1	1	1	1
Pakistan.Okinawa	1	1	1	1
Panama.Guam	1	1	1	1
Panama.Korea	1	1	1	1
Panama.Okinawa	1	1	1	1
Peru.Guam	1	1	1	1
Peru.Korea	1	1	1	1
Peru.Okinawa	1	1	1	1
Philippi.Guam	1	1	1	1
Philippi.Korea	1	1	1	1
Philippi.Okinawa	1	1	1	1
Poland.Guam	1	1	1	1
Poland.Korea	1	1	1	1
Poland.Okinawa	1	1	1	1
Portugal.Guam	1	1	1	1
Portugal.Korea	1	1	1	1
Portugal.Okinawa	1	1	1	1
Singapor.Guam	1	1	1	1
Singapor.Korea	1	1	1	1
Singapor.Okinawa	1	1	1	1
South_Af.Guam	1	1	1	1
South_Af.Korea	1	1	1	1
South_Af.Okinawa	1	1	1	1
Spain.Guam	1	1	1	1
Spain.Korea	1	1	1	1
Spain.Okinawa	1	1	1	1
St_Lucia.Guam	1	1	1	1
St_Lucia.Korea	1	1	1	1
St_Lucia.Okinawa	1	1	1	1
Sweden.Guam	1	1	1	1
Sweden.Korea	1	1	1	1
Sweden.Okinawa	1	1	1	1

Switzerl.Guam	1	1	1	1
Switzerl.Korea	1	1	1	1
Switzerl.Okinawa	1	1	1	1
Thailand.Guam	1	1	1	1
Thailand.Korea	1	1	1	1
Thailand.Okinawa	1	1	1	1
Trinidad.Guam	1	1	1	1
Trinidad.Korea	1	1	1	1
Trinidad.Okinawa	1	1	1	1
Turkey.Guam	1	1	1	1
Turkey.Korea	1	1	1	1
Turkey.Okinawa	1	1	1	1
U_Arab_E.Guam	1	1	1	1
U_Arab_E.Korea	1	1	1	1
U_Arab_E.Okinawa	1	1	1	1
U_Kingdo.Guam	1	1	1	1
U_Kingdo.Korea	1	1	1	1
U_Kingdo.Okinawa	1	1	1	1
Uruguay.Guam	1	1	1	1
Uruguay.Korea	1	1	1	1
Uruguay.Okinawa	1	1	1	1
Venezuel.Guam	1	1	1	1
Venezuel.Korea	1	1	1	1
Venezuel.Okinawa	1	1	1	1
Yugoslav.Guam	1	1	1	1
Yugoslav.Korea	1	1	1	1
Yugoslav.Okinawa	1	1	1	1

;

INCLUDE   C:\GAMS\COSTS.TXT

TABLE

COSTS(s,k)

	14009	14145	14262	14305	14330	14340	14359	14370	14390	14565
Argentin	0.19	0.25	0	0	0	0	0	0	0.41	0
Australi	0.42	0.46	0	0	0	0	2.58	0	0	2.68
Bahamas	0	0	0	0	0	0	0	0	0.04	0
Belgium	0	0	0	0	0	0	0	0	0	0
Belize	0	0	0	0	0	0	0	0	0	0
Brazil	0.3	0	0.13	0.68	0.96	0	1.09	0	0	0
Canada	0.15	0.22	0	0.2	0.63	0.24	0.5	0.54	0.84	0
Chile	0.16	0.15	0	0.54	2.92	1.7	0	0	0	0.31
China_Ma	0	0	0	0	0.76	0	0	0.48	0.89	0
China_Ta	0	0	0	0	0.41	0	0	1.21	0	0
Colombia	0	0	0.13	0	0.1	0	0.79	0.81	0	0
Costa_Ri	0	0	0.14	0.3	0.29	0	0	0.21	0	0
Domin_Re	0	0	0.16	0.47	0.1	0	0	0	0.17	0
Ecuador	0	0	0.12	0	0	0	0	0	0	0
Egypt	0	0	0	0	0	0	0	0.54	0	0
El_Salva	0	0	0	0	0.33	0	0	0	0	0
France	0.34	0	0	1.06	2.46	0	1.43	0	0	0
Germany	0	0	0	0	0.39	0	1.13	0	0	0
Greece	0	0	0	0.32	0	0	1.03	0	0	0
Grenada	0.39	0.23	0	0	0	0	0	0	0	0
Guatemal	0	0	0.15	0.45	0	0	0	0.46	0	0
Haiti	0	0	0	0	0.6	0	0	0.63	0	0
Honduras	0	0	0.15	0	0.1	0	0	0	0	0
Hong_Kon	0	0	0	0	0.39	0	0	0.63	0	0
Hungary	0.22	0.2	0	0.54	0	0	0.22	0	0	0
India	0	0	0	0	0.35	0	0	0.47	0	0
Israel	0	0	0	0	0.08	0	1.75	0.87	0.33	0
Italy	0	0.25	0	2.33	0	0	0.54	3.54	0	0.54
Jamaica	0	0	0.15	0	0.52	0	0	0	0.08	0
Japan	0	1.23	0	0	0.38	0	0	0.85	0	0
Korea	0	0.97	0	0	0	1.42	0	3.1	0	0
Malaysia	0	0	0	0	0.36	0	0	1.27	0	0
Mauritiu	0	0	0	0	0	0	0	0	0	0
Mexico	0	0.32	0.11	0.11	0.14	0	0.23	0.69	0.42	0
Monaco	0	0	0	0	0	0	0	0	0	0
Montserr	0	0	0	0	0	0	0	0	0	0
Morocco	0	0	0	0	0.17	0	0	0	0	0
Mozambiq	0	0	0	0	0	0	0	0	0	0
Netherla	0.21	0	0	0.41	0.36	0	0	0	0	0
New_Zeal	0.4	0.63	0	0	0	0	0	0	0	0.58
Nicaragu	0	0	0	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	1.15	0.42	0	0
Panama	0	0	0.13	0	0	0	0	0	0	0
Peru	0	0	0	0	1	0	0	0	0	0

Philippi	0	0	0	1.31	0.41	0	0	0	0	0
Poland	0	0	0	0	0	0	0	0	0	0
Portugal	0	0	0	0.37	0	0	1.03	0	0	0
Singapor	0	0	0	0	0.38	4.15	2.46	0.7	0	0
South_Af	0.32	0.35	0	0	0	0	0	0	0	0
Spain	0	0	0	1.14	0	0	0.69	2.76	0	0
St_Lucia	0.14	0.14	0.11	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	1.23	0	0.25	0	0
Switzerl	0	0	0	0.77	0	0	0	0	0	0
Thailand	0	0	0	1.7	0.58	0	0.98	2.99	0	0
Trinidad	0.55	0	0	0	0.8	0	0	0	0	0
Turkey	0	0	0	0	0	0	0.5	0.69	0	0
U_Arab_E	0	0	0	0	0	0	0.52	0.33	0	0
U_Kingdo	0.31	0	0	0	0.7	0	0.6	0.53	0	0
Uruguay	0	0	0	0	0	0	0	0	0	0
Venezuel	0	0	0.14	0.45	0.27	0	0	0	0	0
Yugoslav	0	0	0	0.51	0	0	0	0	0	0

+	14570	14605	14620	14626	14650	14830	14892	14899	14938	14970
Argentin	0	0	0	0.41	0.68	0	0	0	0.42	0
Australi	0.41	0	0	0.48	0	0	0	2.27	1.52	0
Bahamas	0.03	0.07	0	0.04	0	0.36	0	0	0	0
Belgium	0	0	0	0	0	0.25	0	0	0	0
Belize	0	0.21	0	0	0	0.27	0	2.05	0	0
Brazil	0	0	0.67	0.65	0	0.67	0	0	0	0
Canada	0	0	0	0.78	0.32	0	0.41	0.92	0.52	0
Chile	0.22	0.21	0.96	0	0.29	0	0.29	1.53	0.48	0
China_Ma	1.35	0	0.7	0	0	0	0	0.85	0	0
China_Ta	0.87	0	0.65	0	3.27	0	2.65	1.24	0	0
Colombia	1.13	0.16	0.64	0.35	0.35	0.46	0	0.21	1.28	0
Costa_Ri	0.38	0.22	0.43	0	0	0.3	0	0.22	0.79	0.37
Domin_Re	0.14	0.13	0.41	0.13	0	0.25	0	0.1	0.14	0.18
Ecuador	0.24	0.12	0.13	0	0	0.55	0	0	0.37	0
Egypt	0	0	0	0.33	0	0	0	0	0	0
El_Salva	0	0.38	1.17	0	0	0	0	0	0.71	0
France	0	0	1.61	0	0	0	0.24	0	2.17	0
Germany	0.3	0	0	7.49	0	0.47	0.71	7.04	0.52	0
Greece	0.18	0	0	0	0.21	0	0	0	0	0
Grenada	0	0	0.49	0	0	0	0.44	0	0	
Guatemal	0.82	0.1	0.22	0	0	1.11	0	0.37	0.33	0
Haiti	0.33	0.28	0	0	0.29	0	0.3	0	0	0
Honduras	0.12	0.11	0.25	0	0	0	0	0.14	0.26	0
Hong_Kon	1.59	0	0	0	0	0	0.38	0.15	0	2.07
Hungary	0	0	0	0	0	0	0.58	0	0.49	0
India	0.65	0	0.51	0	0	0	0	0	0	0
Israel	0.91	0	0	0.29	0	0	0.48	0	0.45	0
Italy	0.39	0	0	0.67	0	0	0	0	3.7	0
Jamaica	0	0	0.53	0.13	0	0.54	0	0	0	0.31
Japan	1.33	0	0	6.19	0	0	1.11	0	0.35	0.32
Korea	0	0	0	0	0	0	0	0	0	0
Malaysia	0.82	2.47	0	0	0	0	0.87	0.28	2.51	0

Mauritiu	0	0	0	0	0	0	0	0	0	0
Mexico	0.14	0.1	0.39	0.26	0.65	0.22	0	0.1	0.42	0.17
Monaco	0	0.92	0	0	0	0	0	0	0.36	0
Montserr	0	0	0	0	0	0	0	0	0	0
Morocco	0	0	0	0.3	0	0	0	0	0	0.45
Mozambiq	0	0	0	0	0	0	0	0	0	0
Netherla	0	0	0	0.5	0	0	0	0	0.5	0
New_Zeal	0	0	0	0	0.89	0	0.72	1.37	0	0
Nicaragu	0	0.22	0	0	0	0	0	0	0	0
Pakistan	1.25	0	0	0	0	0	0.53	0	0	0
Panama	0	0	0	0	0	0	0	0.15	0	0
Peru	0	0	0.04	0	1.11	0.31	0	0.31	0	0
Philippi	0	0	1.05	0	0	0	0	0.31	0.57	0
Poland	0	0	0	0	0	0	0	0	0.47	0
Portugal	0	0	0	0	0	0	0	0	0	0
Singapor	1.66	2.16	1.54	4.8	0.9	0	0	0.3	0	0
South_Af	0	0	0	0	0	0	0	0	0	0
Spain	0.18	0	0	0.37	0.57	0.43	0	0.17	0.69	0.59
St_Lucia	0	0	0	0	0.24	0	0.27	0	0	0
Sweden	0	0	0	0	0	0	0	0	9.91	0
Switzerl	0	0	0	0	0.32	0	0.29	0	0	0
Thailand	0.48	0	2.31	0	0	0.17	0.35	0.6	0	0
Trinidad	0	0	1.66	0	0	2.62	0	0	0	0
Turkey	0.19	2.52	0	0	0	0	1.61	0	0	0
U_Arab_E	0.7	0	0	18.56	0	0	0.55	0	0	0
U_Kingdo	0	0	0	0	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0	0	0	0	0
Venezuel	0.34	0.28	0.43	0	0	0	0	0.21	0.63	0
Yugoslav	0	0	0	0	0	0	0	0	0.52	0

+	14977	16007	16015	16041	16055	16074	16077	16130	16140	16175
Argentin	0	0	0.56	0	0.26	0	0	0	0	0
Australi	0	0	0.57	0	0	0	0	0	0	0
Bahamas	0.04	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	0.35	0.36	0.33	0	0
Belize	0	0	0	0	0	0	0	0	0	0
Brazil	0.06	0	0	0	0	0	0	0	0	0
Canada	0	0.98	1.61	0.07	0.17	0.11	0.12	0.29	0.13	0
Chile	0.12	0.38	0.7	0	0	0	0.73	0.11	0.08	0
China_Ma	0	0	0.58	1.1	0	0	0.65	0.77	0	0
China_Ta	0	0	0	0	0	0	0.14	0	0	0
Colombia	0	0.34	1.33	0	0.33	0	0	0	0	0
Costa_Ri	0.14	0	0.78	0	0.12	0.12	1.02	0	0.82	0.18
Domin_Re	0.06	0	0.16	0	0	0	0	0	0.24	0.15
Ecuador	0	0	0.77	0	0.2	0	0.5	0.13	0	0
Egypt	0	0.9	0	0	0	0	0	0	0	0
El_Salva	0.07	0	0	0	0.27	0	0	0	0	0
France	0	2.18	2.96	0.65	0.37	0	0.28	0	0.11	0
Germany	0	0	1.35	2.04	5.38	0	0.2	0	0	0
Greece	0.03	0	0	0	0.35	0	2.27	0	0	0
Grenada	0	0	0	0	0	0	0	0	0	0

Guatemal	0.05	0	0.41	0	0.32	0.4	0.21	0.3	0.08	0
Haiti	0	0	0	0	0	0	0	0	0	0
Honduras	0.07	0	0	0	0	0	0	0	0	0.08
Hong_Kon	0	0	3.78	0	0	0.19	0	0	0.19	0
Hungary	0	0	1.05	0	0	0	0	0.32	0	0
India	0	0	0	0	0	0	0	0	0.17	0
Israel	0	0	0.71	0	0.51	0.4	0	0.44	0.26	0
Italy	0	40.77	0	0	0	0	0.73	0	0	0
Jamaica	0	0	0	0	0	0	0.55	0	0	0
Japan	0	0	0	0.11	0	3.25	1.88	0	0	0
Korea	0.21	0	0	0	0	0	0	0	0	0
Malaysia	0	0	0	0	0	0	0	0	0	0
Mauritiu	0	0	0.64	0	0.14	0.08	0	0.28	0	0
Mexico	0.08	0.26	0.62	0.2	0.29	0.11	0.12	0.34	0.14	0.28
Monaco	0.11	0	0.74	0	0.3	0	0.12	0.31	4.71	0
Montserr	0	0	0.79	0	0.49	0	0	0	0	0
Morocco	0.1	0	0	0	0	0	0	0	0	0
Mozambiq	0.04	0	0	0	0	0	0	0	0	0
Netherla	0	0	2.15	0	0	0.36	0.12	0.17	0	0
New_Zeal	0	0	0.58	0	0	0	0	0	0	0
Nicaragu	0.21	0	0	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0	0	0	0
Panama	0.13	0	0.89	0	0	0	0	0	0	0
Peru	0	0.14	0.55	0	1.16	0	0.88	0	0	0
Philippi	0	0	0	0.87	0.7	0	0	0	1.85	0
Poland	0	0	0	0.53	0	0	0	0.26	0	0
Portugal	0	0	0	0	0	0	0	0	0	0
Singapor	0	0	0	0	0.32	0	0	0	0	0
South_Af	0	0	0	0	0	0	2.3	0.35	0	0
Spain	0	0	0	0	0.3	0	0	0.2	0	0
St_Lucia	0	0	0	0	0	0	0	0	0	0
Sweden	0	0	0	0	0.7	0	0	0.07	0	0
Switzerl	0	0	0	0	0	6.46	0	0	0	0
Thailand	0	0	1.29	0	0	0	0.68	0	0	0
Trinidad	0	0	0	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0.84	0	0	0
U_Arab_E	0	0	0	0	0	0	0	0	0	0
U_Kingdo	0	0	0	0.44	214.3	1.81	0.27	0	0	0
Uruguay	0	0	0	0	0	0	0	0	0	0
Venezuel	0	0	0.52	0	0	0	0.1	0	0	0
Yugoslav	0	0	0	0	0	0	0	0	0	0
+	16184	16202	16225	1 6235	16264	16270	16280	16287	16362	16380
Argentin	0	0.28	0	0.57	0	0	0	0	0	0
Australi	0.19	0.41	0	0.32	0	0	0	0	0	0
Bahamas	0.12	0	0	0	0.37	0	0	0	0	0
Belgium	0.91	0.24	0	0	0	2	0	1.24	2.51	0
Belize	0.17	0	0	0	0	0	0	0	0	0
Brazil	0	0	0	0.54	0	0	0	0	0	0
Canada	0.42	0.29	0.71	0.44	0.29	0.05	0.39	0.21	0.81	0.26
Chile	0.83	0.24	0	0.75	0	0	0.93	0.92	0.62	87.14

China_Ma	0	0.31	0	0.24	0	0.29	0.4	0	0.81	0
China_Ta	0	1.02	0	0.32	0	0	0.57	1.39	1.27	0
Colombia	0	0	0	0.17	0	0	0	0	0	0
Costa_Ri	0.1	0.77	0.18	0	0.11	0.53	0.3	1.81	0	0.22
Domin_Re	0.1	0.29	0.15	0	0.13	0.13	0.71	0	0	0.29
Ecuador	0.31	0.16	1.06	0	0	0	0	0	0	0
Egypt	0	0	0	0.21	0	0	0	0	0	0.79
El_Salva	0.07	0	0	0.49	0	0	0	0	0	0.3
France	0	0	0	0.44	0	0	0	0	2.32	0
Germany	0	0.22	0	0	0	0	0	0.78	2.02	0
Greece	0.32	0	0	0	0.07	0	0	0	0	0
Grenada	0	0	0	0	0.42	0	0	0	0	0
Guatemal	0.07	0.76	0	0.35	0	0	0.13	0.08	7.16	0.23
Haiti	0	0	0.23	0	0.15	0	0	0	0	0
Honduras	0.09	0	0.15	0	0.1	0	0.72	0	0	0.34
Hong_Kon	0	0	0	0	0	0	0	0	1.06	0
Hungary	0	0.32	0	0	0	0	0.79	0	2	0
India	0	0	0	0.45	0	0	0	0	0	0
Israel	0	0.44	0	0	0	0	0	0	0	0
Italy	0.55	0	0	0	0.09	1.43	0	2.46	1.57	0
Jamaica	0.79	0.37	0.17	0	0.24	0.15	6.12	0	0	0.21
Japan	4.2	2.2	0	0.64	0	1.42	0	0	2.15	0
Korea	4.07	0	0	1.36	0	2.84	0	0	1.22	0
Malaysia	0	0	0	0	0	0	0	0	0.85	0
Mauritiu	0.32	0.11	0.39	0	0	0.05	0	0	0	0
Mexico	0.19	0.21	0.33	0.43	0.23	0.25	0.23	0.16	5.16	0.14
Monaco	0	0	0	0	0.35	0.22	0	0	0	0
Montserr	0	0	0	0.41	0.14	0	0	0	0	0
Morocco	0	0	0	0	0	0	0	0	7.65	0
Mozambiq	0.02	0	0	0.42	0.13	0	0	0	0	0
Netherla	0.63	0.98	1.96	0.37	0	1.36	0	1.37	3.1	0
New_Zeal	0.93	0.26	0	0	0	0	1.53	0	2.64	0
Nicaragu	0	0	0	0	0.08	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0.1	0	0	0	0	0
Peru	0	0.57	0	0.51	0	0	0	0.28	0	0
Philippi	0	0	0	0	0	0	0	0	0	1.07
Poland	0	0	0	0	0	0	0	0	0.82	0
Portugal	0	0	0	0	0	0	0	0	5	0
Singapor	0	0	0	0.31	0	0	0	0	2.34	0
South_Af	0	0	0	0	0	0	0	0	0	0
Spain	0.39	0	0	0.9	0.08	0	0	0	1.29	0
St_Lucia	0	0	0	0	0.33	0	0	0	0	0
Sweden	0.57	0	0	0	0	0	0	0	0	0
Switzerl	0	0	0	0.54	0	0	0	0	5.52	0
Thailand	0	0.82	0.64	0	0	0	0.54	0	0.91	0
Trinidad	0	0	0	0	0.16	0	0	0	0	0
Turkey	0	0	1.06	0	0	0	0	0	2.17	0
U_Arab_E	0	0	0	0	0	0	0	0	0	0
U_Kingdo	0	0.37	0	4.56	0	0	0	0	0	0
Uruguay	0	0	0	0.35	0	0	0	0	0	0

Venezuel	0	0	0	0.47	0	0	0	0	0	0
Yugoslav	0	0.44	0	0	0	0	0	0	4.54	0

+	16385	16470	16492	6510	16523	16525	16611	16620	16700	16720
Argentin	0.1	0.44	0	0.32	0	0	0	0	0.28	0
Australi	0.17	0.22	2.11	0	0	0	0	0	0	0
Bahamas	0	0	0.15	0	0	0	0	0	0	0.12
Belgium	0.45	0.38	2.34	0	0	0.88	0	0	0.27	0
Belize	0	0	0	0	0	0.15	0	0	0	0.13
Brazil	0.14	0	0	0.42	0	0.32	0	0	0	0.3
Canada	0.14	0.32	0.7	0.11	0.04	0.09	0.14	0.1	0.32	0.21
Chile	0.11	0.63	0	0	0.14	0	0	0	0	0
China_Ma	0.33	0.71	0.68	0.62	0.11 0	15	0.45	0.43	0	0.72
China_Ta	0.31	0.99	1.68	0.83	0	0.61	1.13	1.6	0	0
Colombia	0	0.85	0	0.48	0.16	0.61	0	0	0	0
Costa_Ri	0.13	0.84	0.27	0.25	0.16	0.3	0	0	0	0.15
Domin_Re	103	0.45	0.8	0.1	0.18	0.09	0	0	0	0.13
Ecuador	0	0.52	0	0	0.09	0	0	0	0	0
Egypt	0	0.45	0	0	0	0.33	0	0	1.44	0
El_Salva	0.12	0.44	0	0	0.09	0	0	0	0	0.22
France	0.51	0.78	1.13	0	0	0.58	0	0.42	0.24	0
Germany	0	0.5	0	0	0	3.48	1.07	0	0	0
Greece	0	0	0	0	0	0	0	0	0	0
Grenada	0	0	0.8	0	3.95	0	0	0	0	0
Guatemal	0	0.37	0	0	0.1	0	0	0	0	0.7
Haiti	0.18	0.36	0	0	0	0	0	0	0	0
Honduras	0.09	0.82	0	0	0.12	0	0	0	0	0.09
Hong_Kon	0.41	0.32	1.13	0.75	0	0	0.54	0.16	0	0
Hungary	0	0.48	0	0	0	0.3	0	0	0	0
India	0	0.41	0.48	0	0	0	0	0	0	0
Israel	0.51	0	0	0	0	0	0	0	0	0
Italy	0.84	0.82	2.39	0	0	0	2	0	0	0
Jamaica	0	0	0.93	0.77	2.72	0.45	0	0	1.05	0.27
Japan	1.41	0.37	0	0.55	0.13	1.78	1.1	2.97	0	0
Korea	2.01	0	0	1.5	0	0	1.95	0	0	0
Malaysia	0.27	70257	0	0	0	0	0	0	0	0
Mauritiu	0.38	1.32	0	0	0	0	0.28	0	0	0.31
Mexico	0.22	1	0.5	0	0.13	0.44	0	0.17	0.24	0.29
Monaco	0.44	0.88	0	0	0	0	0.21	0	0	0.29
Montserr	0.06	0	0.76	0	0	0	0	0	0	0
Morocco	0.59	0	0	0	0	0	0	0	0	0
Mozambiq	0.35	0	0	0	0	0	0	0	0	0.34
Netherla	0.36	1.22	1.14	0	0	0.64	0	0	0.29	0.93
New_Zeal	0.18	0.4	1.15	0	0	0	0	0	0	0.21
Nicaragu	0.1	0	0	0	0.22	0	0	0	0	0.09
Pakistan	0	0	0.5	0	0	0	0	0	0	0
Panama	0.15	0.3	0	0	0.13	0	0	0	0	0.1
Peru	0	0.38	0	0.73	0	0.52	0	0	0	0
Philippi	0.28	0.43	0	0.63	0	0	0	0	0	0
Poland	0	0.2	0	0	0	0	0	0	0	0
Portugal	0	0.46	0	0	0	0	0	0	0	0

Singapor	0	0	0	0.65	0	0	0	0	0	0
South_Af	0	0	0	0	0	0	0	0	0	0
Spain	0.17	0.34	0	0	0	0	0	0	0	0
St_Lucia	0	0	0	0	0	0	0	0	0	0
Sweden	0	0.36	0	0	0	0	0	0	0	0
Switzerl	0	0	0	0	0	6.21	0	0	0	0
Thailand	0.78	0.27	0.85	0	0	0	0	0	0	0
Trinidad	0	0	1.67	0	0	0	0	0	0	0.15
Turkey	0	0.4	0	0	0	0	0	0	0	0
U_Arab_E	0	0	0	0	0	0	0	0	0	0
U_Kingdo	0.68	0.39	0	0	0	0.4	0	0	0	0
Uruguay	0.12	0	0	0.68	0	0	0	0	0.3	0
Venezuel	0.2	0.63	0	0	0.17	0	0	0	0	0
Yugoslav	0	0.4	0	0	0	0	0	0	0	0

+	16813	19621	19628	19701	19710	19745	19750
Argentin	0.28	0	0	0	0.2	0	0
Australi	0	0	0	0	0	1.97	0
Bahamas	0.11	0	0	0	0	0	0
Belgium	0.79	0	2.63	0	0	0	0.84
Belize	0	0	0	0	0	0	0
Brazil	0.76	0	0	0.59	0	0	0
Canada	0.57	1.01	0.61	1.28	1.86	3.92	1.44
Chile	0.26	5.5	0	0.97	1.02	0	0.57
China_Ma	0	1.35	1.25	0.78	0.71	2.11	1.46
China_Ta	0	0	0.77	0	1.07	0	0
Colombia	0.69	0	0	0.7	0	0	0
Costa_Ri	0.25	0	0	0	0	0	0
Domin_Re	0.18	0	0	0.69	0	0	0
Ecuador	0.34	0	0	1.15	0	0	0
Egypt	0	0	0	0	0	0	0
El_Salva	0	0	0	0	0	0	0
France	0.96	7.38	5.35	0	1.63	0	2.12
Germany	0.46	3.36	1.67	0	0	0	0.33
Greece	0	0	2.68	0	0	0	0
Grenada	0	0	0	0	0	0	0
Guatemal	0.25	0	0	3.13	0	0	0
Haiti	0	0	0	0	0	0	0
Honduras	0.07	0	0	0	0	0	0
Hong_Kon	0	1.68	0.91	0	1.28	0	1.34
Hungary	0.14	0	0	0	0	0	0
India	0	0	0	2.14	0	0	1.5
Israel	0.2	0.3	1.77	0	0	5.66	0
Italy	0.35	3.5	10.34	0	1.16	0	7.51
Jamaica	0	0	0	0	0	0	0
Japan	4.61	1.2	0	0	1.12	0	0
Korea	0	0	1.29	0	1.33	0	0
Malaysia	0	0	0	0.3	0	0	0
Mauritiu	0.77	0	0	0	0	0	0
Mexico	0.35	0	1.17	0	0	1.5	0
Monaco	0.24	0	0	0	0	0	0

Montserr	0.13	0	0	0	0	0	0
Morocco	0.54	0	0	0	0	0	0
Mozambiq	0.09	0	0	0	0	0	0
Netherla	0.67	0	0	1.37	1.04	0	0
New_Zeal	1.03	0	0	0	0	0	0
Nicaragu	0	0	0	0	0	0	0
Pakistan	0	2.66	2.86	0	0	0	1.49
Panama	0	0	0	0	0	0	0
Peru	0	0	0	1.15	0	0.8	0
Philippi	0	0	0	0.44	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	1.9	0	0	0.97	0	0
Singapor	0	1.6	6.49	0.38	0	0	0
South_Af	0	0	0	0	0	2.06	0
Spain	0.72	2.95	0	1.64	1.02	0	0
St_Lucia	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerl	0.7	9.49	11.43	1.06	1.98	0	0.59
Thailand	0	0	0	0	0.4	0	0
Trinidad	0	0	0	0	0	0	0
Turkey	0	1.17	1.99	0	0.85	0	1.43
U_Arab_E	0	0	0	0	0	0	0
U_Kingdo	0	0	0	1.05	0	0	1.69
Uruguay	0	0	0	0.91	0	0	0
Venezuel	0.34	0	0	0	0	0	0
Yugoslav	0	0	0	0	0	0	0

;

INCLUDE   C:\GAMS\TRANS.TXT

TABLE

TRANSPORT(s,k)

	Guam	Korea	Okinawa
Argentin	1	1	1
Australi	1	1	1
Bahamas	1	1	1
Belgium	1	1	1
Belize	1	1	1
Brazil	1	1	1
Canada	1	1	1
Chile	1	1	1
China_Ma	1	1	1
China_Ta	1	1	1
Colombia	1	1	1
Costa_Ri	1	1	1
Domin_Re	1	1	1
Ecuador	1	1	1
Egypt	1	1	1
El_Salva	1	1	1
France	1	1	1
Germany	1	1	1
Greece	1	1	1
Grenada	1	1	1
Guatemal	1	1	1
Haiti	1	1	1
Honduras	1	1	1
Hong_Kon	1	1	1
Hungary	1	1	1
India	1	1	1
Israel	1	1	1
Italy	1	1	1
Jamaica	1	1	1
Japan	1	1	1
Korea	1	1	1
Malaysia	1	1	1
Mauritiu	1	1	1
Mexico	1	1	1
Monaco	1	1	1
Montserr	1	1	1
Morocco	1	1	1
Mozambiq	1	1	1
Netherla	1	1	1
New_Zeal	1	1	1
Nicaragu	1	1	1
Pakistan	1	1	1
Panama	1	1	1
Peru	1	1	1

Philippi	1	1	1
Poland	1	1	1
Portugal	1	1	1
Singapor	1	1	1
South_Af	1	1	1
Spain	1	1	1
St_Lucia	1	1	1
Sweden	1	1	1
Switzerl	1	1	1
Thailand	1	1	1
Trinidad	1	1	1
Turkey	1	1	1
U_Arab_E	1	1	1
U_Kingdo	1	1	1
Uruguay	1	1	1
Venezuel	1	1	1
Yugoslav	1	1	1

;

INCLUDE   C:\GAMS\SUPPLY.TXT

TABLE

SUPPLY(S,K)

	14009	14145	14262	14305	14330
Argentin	14253955	28619850	0	0	0
Australi	334407	4420555	0	0	0
Bahamas	0	0	0	0	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	2844961	0	79366	54013	14833
Canada	1.1E+08	858212	0	633857	173313
Chile	55410328	66640528	0	3293365	5769
China_Ma	0	0	0	0	15911
China_Ta	0	0	0	0	187467
Colombia	0	0	992027943	0	74406
Costa_Ri	0	0	1.66E+09	19899	2844441
Domin_Re	0	0	3127077	26936	24642982
Ecuador	0	0	2.10E+09	0	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	0	267954
France	4121046	0	0	3007	2452
Germany	0	0	0	0	289068
Greece	0	0	0	3342	0
Grenada	83669	5763	0	0	0
Guatemal	0	0	718792319	3175	0
Haiti	0	0	0	0	3047
Honduras	0	0	1.01E+09	0	408264
Hong_Kon	0	0	0	0	219848
Hungary	64155	41667	0	48075	0
India	0	0	0	0	74302
Israel	0	0	0	0	84001
Italy	0	109802	0	1587	0
Jamaica	0	0	358059	0	64395
Japan	0	2868302	0	0	37033
Korea	0	2167970	0	0	0
Malaysia	0	0	0	0	980868
Mauritiu	0	0	0	0	0
Mexico	0	8318	514218384	38681	6498243
Monaco	0	0	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	0	118737
Mozambiq	0	0	0	0	0
Netherla	12106	0	0	44000	106325
New_Zeal	57674106	3007689	0	0	0
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	137947026	0	0
Peru	0	0	0	0	50001

Philippi	0	0	0	8047	75383383
Poland	0	0	0	0	0
Portugal	0	0	0	12421	0
Singapor	0	0	0	0	326994
South_Af	21086556	2805603	0	0	0
Spain	0	0	0	32981	0
St_Lucia	498088	366402	212434	0	0
Sweden	0	0	0	0	0
Switzerl	0	0	0	1607	0
Thailand	0	0	0	55174	38250
Trinidad	7773	0	0	0	0
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	11823	0	0	0	62748
Uruguay	0	0	0	0	0
Venezuel	0	0	41205399	15556	171630
Yugoslav	0	0	0	7121	0
+	14340	14359	14370	14390	14565
Argentin	0	0	0	30512	0
Australi	0	1834	0	0	1102
Bahamas	0	0	0	16133463	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	0	46200	0	0	0
Canada	37676194	9743	327593	54739	0
Chile	3155	0	0	0	16103039
China_Ma	0	0	2722321	3968	0
China_Ta	0	0	19842	0	0
Colombia	0	12360	2976	0	0
Costa_Ri	0	0	47840	0	0
Domin_Re	0	0	0	998088	0
Ecuador	0	0	0	0	0
Egypt	0	0	27760	0	0
El_Salva	0	0	0	0	0
France	0	14343	0	0	0
Germany	0	21587	0	0	0
Greece	0	2536536	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	0	10739	0	0
Haiti	0	0	83112	0	0
Honduras	0	0	0	0	0
Hong_Kon	0	0	139213	0	0
Hungary	0	15873	0	0	0
India	0	0	5196	0	0
Israel	0	893	435482	588791	0
Italy	0	153057	595	0	888259
Jamaica	0	0	0	170723	0
Japan	0	0	3528	0	0
Korea	2255	0	421	0	0
Malaysia	0	0	141887	0	0

Mauritiu	0	0	0	0	0
Mexico	0	1064033	283021	464449	.0
Monaco	0	0	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	0	0
New_Zeal	0	0	0	0	39383744
Nicaragu	0	0	0	0	0
Pakistan	0	6319	10039791	0	0
Panama	0	0	0	0	0
Peru	0	0	0	0	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	22360	0	0	0
Singapor	1887	841	152929	0	0
South_Af	0	0	0	0	0
Spain	0	3920957	1613	0	0
St_Lucia	0	0	0	0	0
Sweden	9367	0	19731	0	0
Switzerl	0	0	0	0	0
Thailand	0	17637	2811	0	0
Trinidad	0	0	0	0	0
Turkey	0	0	4625	0	0
U_Arab_E	0	5291	64706	0	0
U_Kingdo	0	42000	705229	0	0
Uruguay	0	0	0	0	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	0	0
+	14570	14605	14620	14626	14650
Argentin	0	0	0	13007	27937
Australi	403816	0	0	3125651	0
Bahamas	10749701	3568382	0	269392	0
Belgium	0	0	0	0	0
Belize	0	117738	0	0	0
Brazil	0	0	2495063	13801	0
Canada	0	0	0	58798	2109699
Chile	3642735	35995	15723	0	1.0E+08
China_Ma	3998	0	11039	0	0
China_Ta	7251	0	23223	0	1190
Colombia	3307	608461	30815	50876	5302
Costa_Ri	22625	276585	56266	0	0
Domin_Re	88619	40396	178541	7531714	0
Ecuador	42881	1016426	250331	0	0
Egypt	0	0	0	565254	0
El_Salva	0	420243	2088	0	0
France	0	0	3847	0	0
Germany	91354	0	0	1433	0
Greece	72845	0	0	0	191551
Grenada	0	0	165636	0	0

Guatemal	21808	262832	699328	0	0
Haiti	0	134949	9332802	0	0
Honduras	34000	1020809	7624	0	0
Hong_Kon	0	2678	0	0	0
Hungary	0	0	0	0	0
India	13404	0	76456	0	0
Israel	10474	0	0	3994584	0
Italy	72356	0	0	363441	0
Jamaica	0	0	4105	2146184	0
Japan	1124	0	0	937	0
Korea	0	0	0	0	0
Malaysia	7038	3126	0	0	0
Mauritiu	0	0	0	0	0
Mexico	551663	1.5E+08	52840067	15144984	359423
Monaco	0	49800	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	21791654	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	5040	0
New_Zeal	0	0	0	0	135960
Nicaragu	0	521512	0	0	0
Pakistan	3307	0	0	0	0
Panama	0	0	0	0	0
Peru	0	0	6059815	0	3419
Philippi	0	0	30983	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	11343	4169	5769	412	4725
South_Af	0	0	0	0	0
Spain	3837378	0	0	5999308	164619
St_Lucia	0	0	0	0	86287
Sweden	0	0	0	0	0
Switzerl	0	0	0	0	35283
Thailand	26753	0	2865	0	0
Trinidad	0	0	2006	0	0
Turkey	666710	558	0	0	0
U_Arab_E	5490	0	0	243	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0
Venezuel	40737	679351	2112635	0	0
Yugoslav	0	0	0	0	0
+	14830	14892	14899	14938	14970
Argentin	0	0	0	97358	0
Australi	0	0	1204	62489	0
Bahamas	2406235	0	0	0	0
Belgium	6746	0	0	0	0
Belize	1356002	0	2230	0	0
Brazil	7262	0	0	0	0
Canada	0	26266	96122	650179	0
Chile	0	50552181	2646	284518	0

China_Ma	0	0	40727	0	0
China_Ta	0	2043	75461	0	0
Colombia	26037	0	478809	1204907	0
Costa_Ri	342635	0	1.3E+08	760447	41566
Domin_Re	969342	0	61429048	72017	58007
Ecuador 3836	0	0	1646766	0	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	4901	0
France	0	619794	0	9307	0
Germany	3999	8709	985	42858	0
Greece	0	0	0	0	0
Grenada	0	46479	0	0	0
Guatemal	3246	0	390446	4995995	0
Haiti	132409	0	3549	0	0
Honduras	0	0	49514477	229175	0
Hong_Kon	0	27209	401176	0	4341
Hungary	0	13054	0	33964	0
India	0	0	0	0	0
Israel	0	46341	0	3082	0
Italy	0	0	0	397	0
Jamaica	1549067	0	0	0	104736
Japan	0	5750	0	60002	1361434
Korea	0	0	0	0	0
Malaysia	0	22201	23854	3598	0
Mauritiu	0	0	0	0	0
Mexico	12036414	0	11995476	78328443	19740821
Monaco	0	0	0	45001	0
Montserr	0	0	0	0	0
Morocco0	0	0	0	7431807	0
Mozambiq	0	0	0	0	0
Netherla	0	0	0	130409	0
New_Zeal	0	6842	0	724759	0
Nicaragu	0	0	0	0	0
Pakistan	0	42538	0	0	0
Panama	0	0	57486	0	0
Peru	10009	0	25474	0	0
Philippi	0	0	318963	5638	0
Poland	0	0	0	3215872	0
Portugal	0	0	0	0	0
Singapor	0	0	91750	0	0
South_Af	0	0	0	0	0
Spain	32595	0	0	19181	2825101
St_Lucia	0	35303	0	0	0
Sweden	0	0	0	419	0
Switzerl	0	34392	0	0	0
Thailand	225230	9017	4568711	0	0
Trinidad	686	0	0	0	0
Turkey	0	5644	0	0	0
U_Arab_E	0	21070	0	0	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0

Venezuel	0	0	10115	1340389	0
Yugoslav	0	0	0	621799	0
+	14977	16007	16015	16041	16055
Argentin	0	0	48948	0	92065
Australi	0	0	12798	0	0
Bahamas	519763	0	0	0	0
Belgium	0	0	0	0	0
Belize	0	0	0	0	0
Brazil	43109	0	0	0	0
Canada	0	1400	500784	2636068	2944539
Chile	32666	1110667	1189659	0	0
China_Ma	0	0	2522	5000	0
China_Ta	0	0	0	0	0
Colombia	0	403115	26114	0	8358
Costa_Ri	4263892	0	23922	0	181145
Domin_Re	777115	0	13894	0	0
Ecuador	0	0	139909	0	206353
Egypt	0	3193	0	0	0
El_Salva	1018101	0	0	0	500881
France	0	2050	2227	0	8466
Germany	0	0	1102	2000	298
Greece	51006	0	0	0	23184
Grenada	0	0	0	0	0
Guatemal	1250471	0	443405	0	25200919
Haiti	0	0	0	0	0
Honduras	7712156	0	0	0	0
Hong_Kon	0	0	595	0	0
Hungary	0	0	7121	0	0
India	0	0	0	0	0
Israel	0	0	24993	0	72865
Italy	0	123	0	0	0
Jamaica	0	0	0	0	0
Japan	0	0	0	228677	0
Korea	224195	0	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	0	0	298258	0	55305
Mexico	2.3E+08	18634	39197714	1133982	2.9E+08
Monaco	64583	0	19650	0	27922
Montserr	0	0	124151	0	20335
Morocco	30865	0	0	0	0
Mozambiq	148029	0	0	0	0
Netherla	0	0	2302	0	0
New_Zeal	0	0	396532	0	0
Nicaragu	136237	0	0	0	0
Pakistan	0	0	0	0	0
Panama	3444117	0	5114	0	0
Peru	0	125443	4927632	0	27555
Philippi	0	0	0	3900	13757
Poland	0	0	0	4674	0
Portugal	0	0	0	0	0

Singapor	0	0	0	0	19976
South_Af	0	0	0	0	0
Spain	0	0	0	0	80513
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	16316
Switzerl	0	0	0	0	0
Thailand	0	0	115997	0	0
Trinidad	0	0	0	0	0
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	60428	0
Uruguay	0	0	0	0	0
Venezuel	0	0	4586	0	0
Yugoslav	0	0	0	0	0

+	16074	16077	16130	16140	16175
Argentin	0	0	0	0	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	0
Belgium	1694226	114193	125670	0	0
Belize	0	0	0	0	0
Brazil	0	0	0	0	0
Canada	95778563	45255223	278546	9213955	0
Chile	0	125109	40014	116647	0
China_Ma	0	59399	17200	0	0
China_Ta	0	17990	0	0	0
Colombia	0	0	0	0	0
Costa_Ri	43056	68210	0	1543	21578094
Domin_Re	0	0	0	9362	39805
Ecuador	0	2976	81350	0	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	0	0
France	36405	0	302960	0	27957
Germany	0	52882	0	0	0
Greece	0	1991	0	0	0
Grenada	0	0	0	0	0
Guatemal	31206	174910	2325328	1929770	0
Haiti	0	0	0	0	0
Honduras	0	0	0	0	41663
Hong_Kon	7950	0	0	18900	0
Hungary	0	0	16898	0	0
India	0	0	0	80457	0
Israel	2830484	0	180916	209593	0
Italy	0	45522	0	0	0
Jamaica	0	67501	0	0	0
Japan	406	1926	0	0	0
Korea	0	0	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	89144	0	118961	0	0
Mexico	31425091	35148933	49761597	28232257	4992057
Monaco	0	17461	8960	1340	0

Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	0
Netherla	253965	2382489	82459	0	0
New_Zeal	0	0	0	0	0
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Peru	0	1550	0	0	0
Philippi	0	0	0	1440	0
Poland	0	0	67983	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	0	0
South_Af	0	8241	304529	0	0
Spain	0	0	643539	0	0
St_Lucia	0	0	0	0	0
Sweden	0	0	77799	0	0
Switzerl	1254	0	0	0	0
Thailand	0	4085	0	0	0
Trinidad	0	0	0	0	0
Turkey	0	2207	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	7	1764	81409	0	0
Uruguay	0	0	0	0	0
Venezuel	0	70702	0	0	0
Yugoslav	0	0	0	0	0
+	16184	16202	16225	16235	16264
Argentin	0	154762	0	6467686	0
Australi	17895	832188	0	83601	0
Bahamas	12122890	0	0	0	11737
Belgium	14068	95622	0	0	0
Belize	355626	0	0	0	0
Brazil	0	0	0	14611	0
Canada	8139703	19021486	7280	68746	6324
Chile	1653	79553	0	2273768	0
China_Ma	0	50299	0	14376342	0
China_Ta	0	11330	0	2827928	0
Colombia	0	0	0	20988	0
Costa_Ri	26040	11143	82067	0	6241068
Domin_Re	80772	537752	0	0	6426690
Ecuador	15840	14151	2260	0	0
Egypt	0	0	0	42990	0
El_Salva	68667	0	0	21524	0
France	0	0	0	21874	0
Germany	0	41888	0	0	0
Greece	6945	0	0	0	43290
Grenada	0	0	0	0	11353
Guatemal	1055447	24524	0	370369	0
Haiti	0	0	38980	0	472963
Honduras	20334247	0	1770	0	393574

Hong_Kon	0	0	0	0	0
Hungary	0	244885	0	0	0
India	0	0	0	52929	0
Israel	0	2421592	0	0	0
Italy	3426	0	0	0	64709
Jamaica	102327	6343	79959	0	749690
Japan	507	798	0	17832	0
Korea	2250	0	0	9007	0
Malaysia	0	0	0	0	0
Mauritiu	10318	77457	9744	0	0
Mexico	395129957	11153093	38638869	21203117	25552423
Monaco	0	0	0	0	29538
Montserr	0	0	0	40386	8730
Morocco	0	0	0	0	0
Mozambiq	56438	0	0	41482	20371
Netherla	544174	4409	1047	7796	0
New_Zeal	24295	405847	0	0	0
Nicaragu	0	0	0	0	95584
Pakistan	0	0	0	0	0
Panama	0	0	0	0	1358772
Peru	0	35274	0	142881	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	28497	0
South_Af	0	0	0	0	0
Spain	201464	0	0	812407	18999
St_Lucia	0	0	0	0	34399
Sweden	3803	0	0	0	0
Switzerl	0	0	0	69145	0
Thailand	0	84899	3600	0	0
Trinidad	0	0	0	0	308966
Turkey	0	0	5086	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	0	15384	0	615	0
Uruguay	0	0	0	68648	0
Venezuel	0	0	0	40786	0
Yugoslav	0	712307	0	0	0
+	16270	16280	16287	16362	16380
Argentin	0	0	0	0	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	0
Belgium	1839	0	13720	692	0
Belize	0	0	0	0	0
Brazil	0	0	0	0	0
Canada	3278805	6891	2182985	3150022	45217
Chile	0	2200	22896	33078	20
China_Ma	71906	20767	101	1867	0
China_Ta	0	4043	3519	87718	0
Colombia	0	0	0	0	0

Costa_Ri	35311	15737	556	0	12520
Domin_Re	12500	3512	0	0	266210
Ecuador	0	0	0	0	0
Egypt	0	0	0	0	31512
El_Salva	0	0	0	0	3520767
France	0	0	0	132922	0
Germany	0	0	2879	19647	0
Greece	0	0	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	1544177	14661	243	7693490
Haiti	0	0	0	0	0
Honduras	0	5686	0	0	7867
Hong_Kon	0	0	0	81168	0
Hungary	0	2595	0	1164	0
India	0	0	0	0	0
Israel	0	0	0	0	0
Italy	14844	0	9703	100839	0
Jamaica	30001	1290	0	0	31967
Japan	2205	0	0	68036	0
Korea	406	0	0	31635	0
Malaysia	0	0	0	31242	0
Mauritiu	25097	0	0	0	0
Mexico	11113321	1817415	8674889	3487	33588480
Monaco	7998	0	0	0	0
Montserr	0	0	0	0	0
Morocco	0	0	0	838	0
Mozambiq	0	0	0	0	0
Netherla	992	0	3403	5057	0
New_Zeal	0	3838	0	17488	0
Nicaragu	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Peru	0	0	653618	0	0
Philippi	0	0	0	0	1649
Poland	0	0	0	22443	0
Portugal	0	0	0	2471	0
Singapor	0	0	0	13704	0
South_Af	0	0	0	0	0
Spain	0	0	0	158037	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	0	0	0	3517	0
Thailand	0	44092	0	16564	0
Trinidad	0	0	0	0	0
Turkey	0	0	0	43906	0
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	0	0
Uruguay	0	0	0	0	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	450	0

+	16385	16470	16492	16510	16523
Argentin	90279	165347	0	5750	0
Australi	784948	47399	728	0	0
Bahamas	0	0	142132	0	0
Belgium	594691	381218	997	0	0
Belize	0	0	0	0	0
Brazil	345308	0	0	45680	0
Canada	44426940	21646840	24142	49999	46077
Chile	8954549	42507	0	0	57161
China_Ma	34340	5465408	297593	36718	83687
China_Ta	362092	1541938	16799	4260	0
Colombia	0	5091	0	11073	166918077
Costa_Ri	530474	27896	19224	74976	7348734
Domin_Re	46	255888	163689	17835373	2985975
Ecuador	0	142006	0	0	109876939
Egypt	0	3188	0	0	0
El_Salva	70400	150166	0	0	36969
France	5599656	121878	3968	0	0
Germany	0	179604	0	0	0
Greece	0	0	0	0	0
Grenada	0	0	1681	0	430
Guatemal	2294308	22516842	0	0	2368704
Haiti	10999	0	0	0	0
Honduras	155977	74175	0	0	5693485
Hong_Kon	8446	162094	2701	5805	0
Hungary	0	926217	0	0	0
India	0	17637	191578	0	0
Israel	28472	0	0	0	0
Italy	34053	428150	761	0	0
Jamaica	0	0	66758	17811	1202
Japan	2205	51933	0	17811	1552478
Korea	1587	0	0	5882	0
Malaysia	30818	70257	0	0	0
Mauritiu	316655	3651	0	0	0
Mexico	3.6E+08	7877455	75246959	0	278587
Monaco	30923	6312	0	0	0
Montserr	38691	0	3351	0	0
Morocco	135855	0	0	0	0
Mozambiq	30508	0	0	0	0
Netherla	2307089	12877	1293256	0	0
New_Zeal	2508642	2362194	1830	0	0
Nicaragu	653516	0	0	0	41965
Pakistan	0	0	122919	0	0
Panama	310541	42000	0	0	912357
Peru	0	30171	0	2646	0
Philippi	477155	6255	0	5772	0
Poland	0	978720	0	0	0
Portugal	0	4409	0	0	0
Singapor	0	0	0	4826	0
South_Af	0	0	0	0	0
Spain	258492	2044426	0	0	0

St_Lucia	0	0	0	0	0
Sweden	0	928968	0	0	·0
Switzerl	0	0	0	0	0
Thailand	324664	1273808	78719	0	0
Trinidad	0	0	9972	0	0
Turkey	0	36927	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	15966	3958797	0	0	0
Uruguay	125979	0	0	2381	0
Venezuel	104887	10390	0	0	37416450
Yugoslav	0	2209065	0	0	0
+	16525	16611	16620	16700	16720
Argentin	0	0	0	101115	0
Australi	0	0	0	0	0
Bahamas	0	0	0	0	41522
Belgium	1543	0	0	97253	0
Belize	43751	0	0	0	28468
Brazil	18889	0	0	0	25000
Canada	4.5E+08	1230351	2562729	89372	395549
Chile	0	0	0	0	0
China_Ma	52992	12869	14067	0	3501
China_Ta	1975	33620	1874	0	0
Colombia	21100	0	0	0	0
Costa_Ri	55453	0	0	0	1932437
Domin_Re	549776	0	0	0	133934
Ecuador	0	0	0	0	0
Egypt	6614	0	0	2200	0
El_Salva	0	0	0	0	72462
France	12814	0	4057	27933	0
Germany	880	3182	0	0	0
Greece	0	0	0	0	0
Grenada	0	0	0	0	0
Guatemal	0	0	0	0	53358
Haiti	0	0	0	0	0
Honduras	0	0	0	0	3954925
Hong_Kon	0	2500	420682	0	0
Hungary	18234	0	0	0	0
India	0	0	0	0	0
Israel	0	0	0	0	0
Italy	0	787	0	0	0
Jamaica	77721	0	0	8120	926973
Japan	7869	6041	921	0	0
Korea	0	4898	0	0	0
Malaysia	0	0	0	0	0
Mauritiu	0	10523	0	0	23916
Mexico	112531	0	128492	4593130	1.8E+08
Monaco	0	36160	0	0	30554
Montserr	0	0	0	0	0
Morocco	0	0	0	0	0
Mozambiq	0	0	0	0	20926

	112986	0	0	40242	11023
Netherla	112986	0	0	40242	11023
New_Zeal	0	0	0	0	298001
Nicaragu	0	0	0	0	436053
Pakistan	0	0	0	0	0
Panama	0	0	0	0	1093432
Peru	20283	0	0	0	0
Philippi	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	0	0	0	0
Singapor	0	0	0	0	0
South_Af	0	0	0	0	0
Spain	0	0	0	0	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	271	0	0	0	0
Thailand	0	0	0	0	0
Trinidad	0	0	0	0	290600
Turkey	0	0	0	0	0
U_Arab_E	0	0	0	0	0
U_Kingdo	8344	0	0	0	0
Uruguay	0	0	0	273157	0
Venezuel	0	0	0	0	0
Yugoslav	0	0	0	0	0

+	16813	19621	19628	19701	19710
Argentin	166101	0	0	0	42990
Australi	0	0	0	0	0
Bahamas	2280589	0	0	0	0
Belgium	1683638	0 22046	0	0	0
Belize	0	0	0	0	0
Brazil	4740	0	0	13269396	0
Canada	8189828	7521	3546	14018	3312
Chile	30085	1193	0	708787	2698
China_Ma	0	50991	108259	33430	230190
China_Ta	0	0	40724	0	96796
Colombia	16157	0	0	34324	0
Costa_Ri	190224	0	0	0	0
Domin_Re	1833788	0	0	108809	0
Ecuador	74940	0	0	34324	0
Egypt	0	0	0	0	0
El_Salva	0	0	0	0	0
France	27582	536	933	0	66021
Germany	7711	2877	36287	0	0
Greece	0	0	661	0	0
Grenada	0	0	0	0	0
Guatemal	88696	0	0	10310	0
Haiti	0	0	0	0	0
Honduras	532505	0	0	0	0
Hong_Kon	0	4154	429699	30613	0
Hungary	40124	0	0	0	0
India	0	0	0	80167	0

Israel	3777035	5379	88130	0	0
Italy	42439	2111	827	0	7090883
Jamaica	0	0	0	0	0
Japan	1005	3661	0	0	17554
Korea	0	0	44092	0	442376
Malaysia	0	0	0	27024	0
Mauritiu	6173	0	0	0	0
Mexico	7.4E+08	0	86206	0	0
Monaco	106838	0	0	0	0
Montserr	41156	0	0	0	0
Morocco	39630	0	0	0	0
Mozambiq	38673	0	0	0	0
Netherla	7077495	0	0	40832	68015
New_Zeal	5109	0	0	0	0
Nicaragu	0	0	0	0	0
Pakistan	0	1001	6542	0	0
Panama	0	0	0	0	0
Peru	0	0	0	1254721	0
Philippi	0	0	0	51004	0
Poland	0	0	0	0	0
Portugal	0	12823	0	0	127341
Singapor	0	4599	277	24590	0
South_Af	0	0	0	0	0
Spain	18213	4669	32119	178575	0
St_Lucia	0	0	0	0	0
Sweden	0	0	0	0	0
Switzerl	22715	163	551	34319	6161
Thailand	0	0	0	0	23252
Trinidad	0	0	0	0	0
Turkey	0	28660	530533	0	7745
U_Arab_E	0	0	0	0	0
U_Kingdo	0	0	0	212703	0
Uruguay	0	0	0	52911	0
Venezuel	315291	0	0	0	0
Yugoslav	0	0	0	0	0

+	19745	19750
Argentin	0	0
Australi	1652034	0
Bahamas	0	0
Belgium	0	85680
Belize	0	0
Brazil	0	0
Canada	20373	15421
Chile	0	136164
China_Ma	33069	1604080
China_Ta	0	0
Colombia	0	0
Costa_Ri	0	0
Domin_Re	0	0
Ecuador	0	0

Egypt	0	0
El_Salva	0	0
France	0	8179
Germany	0	90178
Greece	0	0
Grenada	0	0
Guatemal	0	0
Haiti	0	0
Honduras	0	0
Hong_Kon	0	329488
Hungary	0	0
India	0	1104465
Israel	1819	0
Italy	0	187
Jamaica	0	0
Japan	0	0
Korea	0	0
Malaysia	0	0
Mauritiu	0	0
Mexico	28024978	0
Monaco	0	0
Montserr	0	0
Morocco	0	0
Mozambiq	0	0
Netherla	0	0
New_Zeal	0	0
Nicaragu	0	0
Pakistan	0	78426
Panama	0	0
Peru	34172	0
Philippi	0	0
Poland	0	0
Portugal	0	0
Singapor	0	0
South_Af	215877	0
Spain	0	0
St_Lucia	0	0
Sweden	0	0
Switzerl	0	17637
Thailand	0	0
Trinidad	0	0
Turkey	0	38901
U_Arab_E	0	0
U_Kingdo	0	11603
Uruguay	0	0
Venezuel	0	0
Yugoslav	0	0

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APPENDIX E. ORIGINAL ITEM NUMBERS AND PRODUCT DESCRIPTIONS

ITEM#	COMMODITY
02089	Lettuce, Naked
02090	Lettuce, Naked
03026	Melon, Cantaloupe
03040	Apple, Eating, Red/Green
03130	Banana, Export, Troop
03370	Grapefruit
03850	Melon, Watermelon
04024	Cherries
04028	Grapes, Thompson, Green
04030	Limes
04031	Mangoes
04034	Pineapple
04035	Berry, Strawberry
04040	Apple, Eating, Red/Apple, Granny Smith
04041	Apple, Golden Delicious
04042	Apple, Red Delicious
04130	Banana, Export, Troop
04220	Melon, Cantaloupe
04370	Grapefruit, Red, 54-80 Sz
04400	Grapes, Red, Seedless
04430	Melon, Honeydew
04432	Melon, Honeydew
04450	Kiwi Fruit
04460	Lemons, 140 - 165 Size
04500	Nectarines
04580	Oranges, 56 Size
04640	Peach
04670	Pear, Bartlett
04730	Plum
04790	Tangarine
04850	Melon, Watermelon
05083	Broccoli
06080	Mushroom
06083	Broccoli, Fresh
06091	Cabbage, Chinese
06109	Peas, Snow
06140	Cabbage,Green
06160	Cabbage, Red
06180	Carrot, Topped
06200	Cauliflower
06220	Celery, Unwrapped
06280	Cucumber
06300	Eggplant
06350	Garlic, Dry, Jumbo
06400	Lettuce, Naked
06415	Lettuce, Cello
06440	Onion, Dry, Yellow

06460	Onion, Green
06480	Onion, Sweet, Spanish/Onion, Dry
06500	Herb, Parsley
06540	Pepper, Sweet, Green
06560	Potato, Sweet
06601	Potato, White, 100 Pound Bag
06602	Potato
06660	Radish, Red, Topped
06700	Lettuce, Romaine
06740	Spinach
06800	Tomato, 2 1/2
06802	Tomato, Cherry
09540	Nuts, Mixed, Unshelled
14005	Apple, Cooking, 3 - 4 Pound Bag
14006	Apple, Carmel/Candy Apple, Carmel
14008	Apple, Red, Candied
14009	Apple, Red Delicious, Cello
14010	Apple, Winesap/Cooking, 72 - 125 Count
14024	Apple, Granny Smith
14027	Apple, Granny Smith, Cello
14029	Apple, Newton
14035	Apple, Golden Delicious
14037	Apple, Golden Delicious, 64 Count
14039	Apple, Golden Delicious, Extra Fancy
14044	Apple, Golden Delicious
14048	Apple, Golden Delicious, 3 Pound Bag
14051	Apple, Jonathan, Extra Fancy
14057	Apple, Golden Delicious 88s/80s, Extra Fancy, Washington
14066	Apple, Mcintosh
14067	Apple, Mcintosh, 88s
14079	Apple, Red Delicious, Fancy
14085	Apple, Red Delicious, 3 Pound Bag, Fancy
14092	Apple, Red Delicious, 64 Count, Extra Fancy
14093	Apple, Loose, Extra Fancy
14094	Apple, Red Delicious, 80's
14095	Apple, Red Delicious
14097	Apple, Red Delicious, Washington, Extra Fancy, 88s
14105	Apple, Red, Rome 72 - 100 Count
14109	Apple, Red Delicious, 88s, Extra Fancy, Washington
14114	Apple, Red Delicious, Cello
14115	Apple, Breaburn
14120	Apple, Gala
14121	Apple, Fuji
14127	Apple, Gala
14130	Apple, Washington State, Fancy/Apple, Granny Smith, Cello
14139	Crabapple, Lady
14140	Fruit Basket, Small
14145	Pear, Apple/Asian Pear
14146	Apple, Red Delicious, Cello
14148	Juice, Apple Cider, Sparkling, 25.4 Oz
14149	Juice, Cranberry, Sparkling, 25.4 Oz

14159	Juice, Apple, 10 Oz
14201	Juice, Apple Cider, 1.5 Liter
14205	Apricot
14236	Avocado, 48 Count
14254	Juice, Cranberry Delight, 32 Oz.
14262	Banana, Export
14277	Banana, Export, Resale
14280	Berry, Blueberry
14283	Berry, Blackberry
14284	Berry, Boysenberry
14292	Melon, Cantaloupe
14297	Melon, Casaba
14305	Cherry, Sweet
14325	Melon, Christmas/Santa Claus
14330	Coconut
14340	Berry, Cranberries, 1 Pound Package
14350	Melon, Crenshaw
14359	Figs, Greek
14370	Dates, Pitted
14380	Figs, Fresh
14390	Grapefruit, Pink/Red, Ca/Az
14392	Grapefruit, Red 40 Size
14395	Grapefruit, White
14400	Grapefruit
14401	Grapefruit, Red
14403	Grapefruit, Red
14404	Grapefruit, Pink
14405	Grapefruit, Red 36s
14410	Grapefruit, White
14411	Grapefruit, White, 27s
14420	Grapefruit, White, 5 Pound Bag
14422	Melon, Canary
14475	Grapes, Black
14485	Grapes, Concord
14490	Grapes, Red, Seedless
14495	Grapes, Red
14510	Grapes, White
14543	Melon, Honeydew
14557	Melon, Honeydew
14560	Kumquat
14565	Kiwi Fruit, Bulk
14570	Lemon, 115 Count
14571	Lemons, 95 Count
14605	Limes, Persian
14610	Loquat
14620	Mangoes
14626	Oranges, Mandarin
14650	Nectarines
14715	Oranges, Blood
14720	Oranges, (Ca/Az), 56s
14721	Oranges

14722	Orange, Ca/Az
14730	Oranges, 5 Pound Bag, Ca/Az
14790	Oranges, 56 -72 Count, Ca/Az
14830	Papayas 8-13 Size
14858	Passion Fruit
14860	Peaches
14867	Pears, Red
14870	Pear, Bartlett, 90 - 150 Count
14878	Pear, Comice
14880	Pears, Danjou
14885	Persimmon
14886	Passion Fruit
14892	Plums, Black
14894	Plum, Redlow
14896	Melon, Persian
14898	Pear, Bosc
14899	Pineapple, Fresh
14902	Plum, Black
14905	Plum, Rosa/Plum, Red
14907	Plum, Yellow
14910	Pomegranate
14917	Pummelo, Chinese Grapefruit
14926	Quinces
14930	Berry, Raspberry
14937	Starfruit
14938	Berry, Strawberries - Export
14940	Berry, Strawberry
14942	Berry, Strawberry
14944	Apple, Gala, Bulk
14948	Apple, Breaburn
14953	Tangelo
14966	Passion Fruit
14970	Tangarines
14971	Tangarines, Honey
14977	Melon, Watermelon, Seedless
14980	Melon, Watermelon
14982	Melon, Watermelon, Seedless
14993	Juice, Apple, Sparkling, 10 Oz.
14994	Juice, Apple Cider, Sparkling, 10 Oz/ Juice Cranapple Cider
14995	Juice, Apple
16001	Sprouts, Alfalfa, 4 Oz.
16005	Herbs, Anise
16007	Artichoke
16013	Bag-O-Beans, Assorted Selection
16015	Asparagus, Small - Medium
16020	Asparagus, Tips, 15 Pounds
16021	Bok Choy
16023	Beans, Garbonzo
16024	Beans, Green, Chinese
16025	Beans, Green, Blue Lake, 1lb Cello
16034	Bag - O - Beans, Assorted Choice

16035	Sprouts, Bean
16041	Beet, Bunch, 1 Dozen
16044	Beans, Lima
16048	Melon, Bitter Melon
16055	Broccoli
16060	Brussel Sprouts
16073	Bag - O - Beans, Assorted, Special
16074	Carrot, Jumbo
16077	Cabbage, Nappa/Cabbage, Chinese
16080	Cabbage, Napa
16090	Cabbage, Green, 24 Count
16091	Cabbage, Savory
16094	Cabbage, Red
16096	Carrot, Bunch
16110	Carrots, 5 Pound, Cello
16115	Carrots, 1 Pound, Cello
16125	Carrots, Mini
16126	Carrot, Loose
16130	Cauliflower, Wrapped
16135	Herbs, Cilantro, 20 Oz.
16140	Celery, Wrapped
16141	Celery, Unwrapped
16145	Celery, Sleeved
16150	Celery Hearts
16160	Celery Hearts
16175	Chayote, Mirlington
16180	Herbs, Chives
16184	Cucumber, Japanese
16185	Cucumbers, Pickling
16199	Corn Husks
16200	Coleslaw Mix
16202	Corn On The Cob, Golden
16203	Coleslaw, Mix
16205	Ornamental Indian Corn
16206	Greens, Collard
16207	Bag - O - Beans, Assorted Popcorn
16211	Corn, White
16216	Cucumbers, Eng Wrapped
16217	Cucumber, Medium
16225	Eggplant
16227	Herbs, Endive
16228	Eggplant
16230	Herbs, Escarole
16235	Garlic, Dry, Cello, Jumbo
16236	Garlic, Minced
16240	Garlic, Netted/Garlic Chopped, 12-9 Oz/Garlic Jar Chopped, 12-4.15 Oz./
16244	Garlic Jar Crushed, 12 - 4.25 Oz.
16248	Herb, Escarole
16250	Ornamental Gourd
16253	Greens, Mustard
16257	Garlic, Jar, Crushed, 12-9 Oz.

16258	Greens, Turnip
16260	Greens, Mustard, China
16263	Greens, Kale
16264	Jicama
16266	Greens, Kale
16270	Kohlrabi
16280	Leeks, Bunch
16287	Lettuce, Cello
16291	Lettuce, Naked
16300	Lettuce, Boston/Butter
16310	Lettuce, Cello
16320	Lettuce, Red
16330	Lettuce, Leafy Green
16340	Lettuce, Leaf
16362	Mushrooms, Jumbo
16367	Mushroom, 8 Oz., Cello
16372	Mushrooms, Oyster
16380	Okra
16385	Onion, Dry, White, Boilers
16386	Onion, Boiler, 1 Pound/Bulk
16389	Onion, Red, Jumbo
16391	Onion, Dry, Small Round
16395	Onion, Dry, Medium, Red
16396	Onion, Yellow, Medium
16406	Onion, Dry, Yellow
16410	Onion, White, 14 - 3 Pound Bags
16412	Onion, White, Medium
16415	Onion, Dry, White, Jumbo
16422	Onion, Yellow, 1.5 Pound Bag
16424	Onion, Yellow, Medium, 1 Pound
16425	Onion, Medium, Yellow, 14 - 3 Pound Bags
16431	Onion, Green 4 Dozen
16434	Onion, Dry, Yellow, Medium, 3 Pound Bag
16435	Herbs, Parsley, Bulk
16436	Herbs, Parsley, Curley Leaf
16440	Herbs, Parsnip, Cello
16446	Herbs, Parsnip, Bulk
16470	Peas, Green, Bulk
16480	Peas, Sugar, Cinal/Peas, Snow
16485	Peas, Sugar
16492	Peppers, Jalapena/Peppers, Chili
16495	Peppers, Anaheim
16496	Peppers, Chili
16497	Peppers, Serano
16499	Peppers, Chili Strings, Small
16500	Peppers, Chile, Yellow
16501	Peppers, Sweet, Green, Extra Large
16502	Peppers, Sweet, Golden
16506	Peppers, Sweet, Red
16510	Potato, Sweet, Cello
16515	Yam

16523	Plaintains
16525	Potato, White
16530	Potato, 20 Count
16540	Potato, White, 10 Pound Bag
16548	Potato, Red, Sza Us #1
16550	Potato, White
16551	Potato, Red, 5 Pound Bag, Mesh
16556	Potato, Sweet
16558	Potato, Russett, 5 Pound, Baking
16559	Potato, Russett, Baking, 10 Pound Bag
16567	Potato, Russett, Baking, 5 Pounds
16570	Potato, Russett, 20 Pound Bag
16574	Potato, Russett, 70 Count
16576	Potato, Russett, 80 Count
16579	Potato, Russett, 90 Count
16580	Potato, Red, 5 Pound Bag, 2 Inches
16600	Pumpkin, Mixed Sizes, 60 Pound Crate/5 - 15 Pound Crates/5 - 10 Pound C
16605	Pumpkin 5 - 10 Pound Crate, Large Size
16611	Radish, Red, Topped
16613	Radish, Red, Bunch
16615	Radish, Red, Cello, 6 Oz Bags
16616	Radish, White
16617	Radish, White
16620	Turnip, Daikon/Radish, Daikon, Bunch
16627	Radish, Red, Baby
16635	Rappini
16645	Rhubarb
16656	Lettuce, Romaine, 24 Count
16666	Rutabaga
16670	Salad Mix
16682	Shallot
16700	Spinach, Cello
16704	Spinach, Leaves
16720	Squash, Acorn, Winter
16724	Broccoflower
16730	Squash, Banana, Winter
16734	Squash, Summer/Squash, Spaghetti
16739	Squash, Kabuchi
16740	Squash, Butternut, Winter
16750	Squash, Hubbard
16760	Squash, Italian, Summer
16761	Squash, Summer
16772	Okra, Chinese
16776	Squash, Summer
16779	Squash, Winter
16790	Squash, Yellow, Summer
16800	Sugarcane
16813	Tomatillo
16815	Taro Root, Washed/Malanga/Yautia
16822	Tomato, Italian, Pink, Bulk
16829	Tomato, Pink, 5x5 Count

16835	Tomato, Mature Green
16841	Tomato, Cherry, Mature Green
16863	Tomatoes, Dried, 3 Oz Bag
16867	Ginger, Crushed, 12 - 4.25 Oz Jar
16875	Tomato, Cherry, Pink
16919	Melon, Bittermelon
16928	Horseradish Roots
16951	Turnip, White
16965	Yucca Fruit
16970	Watercress, Bunch
19036	Date Nut Roll
19045	Herbs, Majoram
19050	Herbs, Oregano
19063	Herbs, Sage
19065	Herbs, Savory
19147	Herbs, Thyme
19232	Tomato, Dried, Season-Ital, 4 Oz.
19233	Garlic Salsa, 16 Oz Jar
19234	Pesto Sauce, Jar, 12 - 8 Oz
19236	Tomato, Dried/Bits, Bg Sonoma, 3 Oz Jar
19320	Juice, Organic Apple, 32 Oz.
19365	Juice, Red Raspberry Delight, 32 Oz.
19366	Juice, Peach Delight, 32 Oz.
19369	Juice, Boysenberry Delight, 32 Oz.
19370	Juice, Cherry Delight, 32 Oz.
19371	Juice, Pina Colada, 32 Oz.
19372	Juice, Guava Delight, 32 Oz.
19373	Juice, Mango
19374	Juice, Passion Fruit Delight, 32 Oz.
19375	Juice, Pomegranate Knudsen/Tropic Punch, 32 Oz.
19376	Juice, Strawberry Delight, 32 Oz.
19378	Dried Fruit Mix
19387	Juice, Papaya Delight, 32 Oz.
19410	Tomato, Tapanade, Sonoma, 8 Oz.
19411	Tomato Pasta Sauce, 12 - 8 Oz Jars
19621	Nuts, Almond, Unshelled
19624	Nuts, Mixed, Unshelled
19628	Nuts, Pistacho, Natural/Red 5 Pound Bag
19634	Nuts, Sunflower Seeds
19701	Nuts, Brazil
19705	Nuts, Brazil, Unshelled, 1 Pound
19710	Nuts, Chestnuts, Unshelled
19725	Nuts, Peanut, Unshelled, Roasted, Salted
19726	Nuts, Peanuts Unshelled, Roasted, Salted, Cello, 12 Oz
19728	Nuts, Peanuts, Roasted, Cello 24 Oz
19730	Nuts, Peanuts, Roasted, Unsalted
19735	Nuts, Peanuts, Unshelled, Roasted, Cello 12 Oz
19739	Nuts, Peanuts, Raw, Unshelled, Unroasted, Bulk
19740	Nuts, Peanut, Unshelled, Raw
19745	Nuts, Pecan, Unshelled, 1 Pound
19750	Nuts, Walnut, Unshelled, 1 Pound

19760	Herbs, Basil
19770	Herbs, Dill
19795	Ginger Root
19882	Egg Roll Skins
19890	Tofu, Soft, Blue
19891	Tofu, Firm, Japan Red
19892	Tofu, Firm, China Greent
19960	Herbs, Mint Leaves
19981	Wonton Wrap
44254	Juice, Cranberry Delight, 32 Oz.
44883	Figs, Greek

APPENDIX F. REVISED ITEM NUMBERS AND PRODUCT DESCRIPTIONS

ITEM #	DESCRIPTION	CONSOLIDATED ITEM NUMBERS
14009	Apple, Red Delicious	(14109, 14114, 14146, 14079, 14097, 04042, 14095, 14085, 14092,14094)
14010	Apple, Winesap	
14024	Apple, Granny Smith	(14027, 14130)
14029	Apple, Newton	
14035	Apple, Golden Delicious	(04041, 14044, 14057, 14048, 14037, 14039)
14051	Apple, Jonathan	
14066	Apple, McIntosh	(14067)
14105	Apple, Rome	
14115	Apple, Breaburn	(14948)
14120	Apple, Gala	(14127, 14944)
14121	Apple, Fuji	
14139	Crabapple, Lady	
14145	Pear, Apple	
14205	Apricot	
14236	Avocado	
14262	Banana	(14277, 03130, 04130)
14280	Berry, Blueberry	
14283	Berry, Blackberry	
14284	Berry, Boysenberry	
14292	Melon, Cantaloupe	(03026, 04220)
14297	Melon, Casaba	
14305	Cherry	(04024)
14325	Melon, Christmans	
14330	Coconut	
14340	Berry, Cranberry	
14350	Melon, Crenshaw	
14359	Fig	(14380, 44883)
14370	Date	
14390	Grapefruit, Pink	(14400, 14404, 03370)
14392	Grapefruit, Red	(14401, 14403, 14405, 04370)
14395	Grapefruit, White	(14410, 14411, 14420)
14422	Melon, Canary	
14475	Grape, Black	
14485	Grape, Concord	
14490	Grape, Red, Seedless	(14495, 04400)
14510	Grape, White	(04028)
14543	Melon, Honeydew	(14557, 04430, 04432)
14560	Kumquat	
14565	Kiwi	(04450)
14570	Lemon	(14571, 04460)
14605	Lime	(04030)
14610	Loquat	
14620	Mango	(04031)
14626	Orange, Mandarin	
14650	Nectarine	(04500)
14715	Orange, Blood	

14720	Orange	(14721, 14722, 14730, 14790, 04580)
14830	Papaya	
14858	Passion Fruit	(14886, 14966)
14860	Peach	(04640)
14867	Pear, Red	
14870	Pear, Bartlett	(04670)
14878	Pear, Comice	
14880	Pear, D'Anjou	
14885	Persimmon	
14892	Plum, Black	(14902, 04730)
14894	Plum, Redlow	
14896	Melon, Persian	
14898	Pear, Bosc	-
14899	Pineapple	(04034)
14905	Plum, Red	
14907	Plum, Yellow	
14910	Pomegranate	
14917	Pummelo	
14926	Quince	
14930	Berry, Raspberry	
14937	Starfruit	
14938	Berry, Strawberry	(04035, 14940, 14942)
14953	Tangelo	
14970	Tangarine	(14971, 04790)
14977	Watermelon, Seedless	(14982)
14980	Melon, Watermelon	(04850, 03850)
16001	Sprouts, Alfalfa	
16005	Herb, Anise	
16007	Artichoke	
16015	Asparagus	(16020)
16021	Bok Choy	
16023	Beans, Garbonzo	
16024	Beans, Green, Chinese	
16025	Beans, Green, Blue Lake	
16035	Sprouts, Bean	
16041	Beet	
16044	Beans, Lima	
16048	Melon, Bittermelon	(16919)
16055	Broccoli	(05083, 06083)
16060	Brussel Sprouts	
16074	Carrot	(16096, 16126, 06180, 16115, 16125, 16110)
16077	Cabbage, Nappa	(16080, 06091)
16090	Cabbage, Green	(06140)
16091	Cabbage, Savory	
16094	Cabbage, Red	(06160)
16130	Cauliflower	(06200)
16135	Herb, Cilantro	
16140	Celery	(16141, 06220, 16145, 16160, 16150)
16175	Chayote, Mirlington	
16180	Herb, Chive	
16184	Cucumber, Japanese	

16185	Cucumber	(16216, 16217, 06280)
16202	Corn, Golden	
16206	Greens, Collard	
16211	Corn, White	
16225	Eggplant	(16228, 06300)
16227	Herb, Endive	
16230	Herb, Escarole	(16248)
16235	Garlic	(06350, 16240)
16253	Greens, Mustard	(16260)
16258	Greens, Turnip	
16263	Greens, Kale	(16266)
16264	Jicama	
16270	Kohlrabi	
16280	Leek	
16287	Lettuce, Cello	
16291	Lettuce, Leafy	
16300	Lettuce, Boston	
16320	Lettuce, Red	
16362	Mushroom, Button	(16367, 06080)
16372	Mushroom, Oyster	
16380	Okra	(16772)
16385	Onion, Boiler	(16386,16391)
16389	Onion, Red	(16389)
16396	Onion, Yellow	(16424, 16422, 16425, 16406, 16434, 06440)
16410	Onion, White	(16412, 16415, 06480)
16431	Onion, Green	(06460)
16435	Herb, Parsley	(16436, 06500)
16440	Herb, Parsnip	(16446)
16470	Peas, Green	
16480	Peas, Snow, Sugar	(16485, 06109)
16492	Pepper, Jalapena	
16495	Pepper, Anaheim	
16496	Pepper, Chili	(16499, 16500)
16497	Pepper, Serano	
16501	Pepper, Sweet, Green	(06540)
16502	Pepper, Sweet, Golden	
16506	Pepper, Sweet, Red	
16510	Potato, Sweet	(16556, 06560)
16515	Yam	
16523	Plaintains	
16525	Potato	(16550, 16540, 16530, 06602, 06601)
16548	Potato, Red	(16551, 16580)
16558	Potato, Russet	(16559, 16567, 16570, 16574, 16579, 16576)
16600	Pumpkin	(16605)
16611	Radish, Red	(16613, 16615, 16627, 06660)
16616	Radish, White	(16617)
16620	Turnip	(16951)
16635	Rappini	
16645	Rhubarb	
16656	Lettuce, Romaine	(06700)
16666	Rutabaga	

16682	Shallot	
16700	Spinach	(16704, 06740)
16720	Squash, Acorn	
16724	Broccoflower	
16730	Squash, Banana	
16734	Squash, Summer	(16776, 16761)
16739	Squash, Kabuchi	
16740	Squash, Butternut	
16750	Squash, Hubbard	
16760	Squash, Italian	
16779	Squash, Winter	
16790	Squash, Yellow	
16800	Sugarcane	
16813	Tomatillo	
16815	Taro Root	
16822	Tomato, Italian	
16829	Tomato	(16835, 06800)
16841	Tomato, Cherry	(16875, 06802)
16928	Horseradish Root	
16965	Yucca Fruit	
16970	Watercress	
19045	Herb, Majoram	
19050	Herb, Oregano	
19063	Herb, Sage	
19065	Herb, Savory	
19147	Herb, Thyme	
19621	Nut, Almond	
19628	Nut, Pistachio	
19634	Nut, Sunflower	
19701	Nut, Brazil	(19705)
19710	Nut, Chestnut	
19725	Nut, Peanut	(19740, 19726, 19739, 19728, 19735, 19730)
19745	Nut, Pecan	
19750	Nut, Walnut	
19760	Herb, Basil	
19770	Herb, Dill	
19795	Ginger Root	
19960	Herb, Mint	

APPENDIX G. CONSOLIDATED ITEM NUMBERS MATCHED WITH CENSUS BUREAU INFORMATION

ITEM #   DESCRIPTION

14009   Apples
14145   Pears
14262   Bananas
14305   Cherries
14330   Coconuts
14340   Cranberries
14359   Figs
14370   Dates
14390   Grapefruits
14565   Kiwi
14570   Lemons
14605   Limes
14620   Mangoes
14626   Oranges
14650   Nectarines
14830   Papayas
14892   Plums
14899   Pineapples
14938   Strawberries
14970   Tangarines
14977   Watermelons
16007   Artichokes
16015   Asparagus
16041   Beets
16055   Broccoli
16074   Carrots
16077   Cabbage
16130   Cauliflower
16140   Celery
16175   Chayote, Mirlington
16184   Cucumbers
16202   Corn
16225   Eggplant
16235   Garlic
16264   Jicama
16270   Kohlrabi
16280   Leeks
16287   Lettuce
16362   Mushrooms
16380   Okra
16385   Onions
16470   Peas
16492   Peppers
16510   Potatoes, Sweet
16523   Plaintains
16525   Potatoes

16611	Radishes
16620	Turnips
16700	Spinach
16720	Squash
16813	Tomatoes
19621	Nuts, Almonds
19628	Nuts, Pistachios
19701	Nuts, Brazil
19710	Nuts, Chestnuts
19745	Nuts, Pecans
19750	Nuts, Walnuts

APPENDIX H. SUPPLY AVAILABILITY DATA (AVERAGE POUNDS PER YEAR AND AVERAGE COST PER POUND IN DOLLARS)

ALMONDS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	7,521	1.01
Chile	1,193	5.50
China Mainland	50,991	1.35
France	536	7.38
Germany	2,877	3.36
Hong Kong	4,154	1.68
Israel	5,379	.30
Italy	2,111	3.50
Japan	3,661	1.20
Pakistan	1,001	2.66
Portugual	12,823	1.90
Singapore	4,599	1.60
Spain	4,669	2.95
Switzerland	163	9.49
Turkey	28,660	1.17

ANISE

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Albania	39,683	.86
China Mainland	350,542	1.26
Eqypt	85,200	.77
Germany	7,617	3.68
Guatemala	3,307	3.10
Hong Kong	40,145	1.34
India	14,414	.44
Japan	2,646	2.65
Lebanon	1,916	.57
Netherlands	1,144	2.04
Philippines	3,051	.69
Singapore	30,754	1.69
Spain	225,168	1.11
Syria	20,501	.87
Thailand	4,125	1.12
Tokelau Island	27,558	.51
Tunsia	27,558	.66
Turkey	1,644,046	.78
United Arab Emerates	220,561	.93
United Kingdom	41,888	.48

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APPLES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	14,253,955	.19
Australia	334,407	.42
Brazil	2,844,961	.30
Canada	114,797,606	.15
Chile	55,410,328	.16
France	4,121,046	.34
Grenada	83,669	.39
Hungary	64,155	.22
Netherlands	12,106 -	.21
New Zealand	57,674,106	.40
South Africa	21,086,556	.32
St. Lucia	498,088	.14
St. Vincent	3,086	.46
Trinidad	7,773	.55
United Kingdom	11,823	.31

APRICOTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	102,486	.57
Canada	44,736	.46
Chile	1,594,806	.34
China Mainland	1,699	1.17
Hong Kong	4,700	.57
Greece	25,313	.37
Isreal	30,865	.60
New Zealand	317,851	1.11
Panama	882	1.50
Spain	32,011	.54
Turkey	140,540	.94

ARTICHOKES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	1,400	.98
Chile	1,110,667	.38
Colombia	403,115	.34
Egypt	3,193	.90
France	2,050	2.18
Italy	123	40.77
Mexico	18,634	.26
Peru	125,443	.14

ASPARAGUS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	48,948	.56
Australia	12,798	.57
Canada	500,784	1.61
Chile	1,189,659	.70
China Mainland	2,522	.58
Colombia	26,114	1.33
Costa Rica	23,922	.78
Dominican Repbulic	13,894	.16
Equador	139,909	.77
Fiji	1,616	2.78
France	2,227	2.96
Germany	1,102	1.35
Guatemala	443,405	.41
Hong Kong	595	3.78
Hungary	7,121	1.05
Israel	24,993	.71
Mauritius	298,258	.64
Mexico	39,197,714	.62
Monaco	19,650	.74
Montserrat	124,151	.79
Nambia	5,117	.34
Netherlands	2,302	2.15
New Zealand	396,532	.58
Panama	5,114	.89
Peru	4,927,632	.55
Thailand	115,997	1.29
Venezuela	4,586	.52

AVOCADOS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bahamas	272,906	.20
Belize	26,235	.19
Chile	20,818,758	.50
Colombia	4,034	.71
Dominican Republic	7,852,719	.19
Grenada	8,572	.18
Haiti	4,268	.56
Israel	3,501	2.21
Italy	129,323	.34
Jamaica	18,113	.79
Mauritius	9,570	.50
Mexico	937,872	.82
New Zealand	11,821	.93
Switzerland	71,112	.29

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BANANAS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Brazil	79,366	.13
Colombia	992,027,943	.13
Costa Rica	1,665,129,041	.14
Dominican Republic	3,127,077	.16
Ecuador	2,102,076,823	.12
Guatemala	718,792,319	.15
Honduras	1,010,141,046	.15
Jamaica	358,059	.15
Mexico	514,218,384	.12
Panama	137,947,026	.13
St. Lucia	212,434	.11
Venezuela	41,205,399	.14

BEETS AND HORSERADISH

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	2,636,068	.07
China Mainland	5,000	1.10
Germany	2,000	2.04
Japan	228,677	.11
Mexico	1,133,982	.20
Philippines	3,900	.87
Poland	4,674	.53
United Kingdom	60,428	.44

BLACKBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	23,554	.67
Chile	188,365	.69
China Taiwan	8,297	.87
Colombia	90,070	1.41
Costa Rica	56,592	3.01
Dominican Republic	34,397	.78
El Salvador	3,799	.72
France	3,898	1.18
Guatemala	146,998	.70
Hungary	95,928	.77
Malaysia	1,199	1.43
Mexico	44,677	.48
New Zealand	75,126	.72
Philippines	2,757	.99
Spain	87,964	1.03
Sweden	2,679	1.67
Thailand	53,592	1.00
Yugoslavia	676,052	.73

BLUEBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	23,214	1.06
Canada	30,167,259	.56
Chile	15,995	.85
Costa Rica	2,478	.51
New Zealand	640,753	1.65
Sweden	8,518	1.09

BOYSENBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Chile	139,980	.48
New Zealand	880,428	.53

BRAZIL NUTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bangladesh	66,006	1.04
Bolivia	5,716,129	.92
Brazil	13,269,396	.59
Brunei	27,778	1.74
Burma	34,866	.93
Canada	14,018	1.28
Chile	708,787	.97
China Mainland	33,430	.78
Colombia	34,324	.70
Dominican Republic	108,809	.69
Ecuador	34,319	1.15
French Guiana	3,521	1.35
Guatemala	10,310	3.13
India	80,167	2.14
Malaysia	27,024	.30
Netherlands	40,832	1.37
Peru	1,254,721	1.15
Philippines	51,004	.44
Singapore	24,590	.38
Spain	32,119	1.64
Switzerland	34,319	1.06
United Kingdom	212,703	1.05
Uruguay	52,911	.91

BROCCOLI

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	92,065	.26
Canada	2,944,539	.17
Colombia	8,358	.33
Costa Rica	181,145	.12
Ecuador	206,353	.20
El Salvador	500,881	.27
France	8,466	.65
Germany	298	5.38
Greece	23,184	.35
Guatemala	25,200,919	.32
Israel	72,865	.51
Mauritius	55,305	.14
Mexico	287,207,764	.29
Monaco	27,922	.30
Montserrat	20,335	.49
Peru	27,555	1.16
Philippines	13,757	.70
Singapore	19,976	.32
Spain	80,513	.30
Sweden	16,316	.70

CABBAGES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	114,193	.36
Canada	45,255,223	.12
Chile	125,109	.73
China Mainland	59,399	.65
China Taiwan	17,990	.14
Costa Rica	68,210	1.02
Ecuador	2,976	.50
Germany	52,882	.20
Greece	1,991	2.27
Guatemala	174,910	.21
Italy	45,522	.73
Jamaica	67,501	.55
Japan	1,926	1.88
Mexico	35,148,933	.12
Netherlands	2,382,489	.12
Peru	1,550	.88
South Africa	8,241	2.30
Thailand	4,085	.84
Turkey	2,207	.68
United Kingdom	1,764	1.81
Venezuela	70,702	.10

CANTALOUPES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Antigua	17,701	.63
Bahamas	562,274	.07
Bhutan	25,585	.14
Canada	36,353	.17
Chile	61,800	.24
Costa Rica	59,222,366	.23
Dominican Republic	14,874,854	.08
Ecuador	440,325	.18
El Salvador	7,156,491	.10
Germany	145,505	.03
Guatemala	47,820,993	.12
Guinea	38,945	.15
Haiti	225,231	.18
Honduras	100,400,367	.10
Jamaica	42,432	.11
Kiribati	186,567	.22
Mauritius	173,413	.12
Mexico	274,250,405	.15
Monaco	46,559	.14
Mongolia	40,001	.10
Montserrat	54,613	.07
Mozambique	75,398	.12
Nicaragua	5,679,545	.11
Panama	3,094,728	.11

CARROTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	1,694,226	.35
Canada	95,778,563	.11
Costa Rica	43,056	.12
France	36,405	.37
Guatemala	31,206	.40
Hong Kong	7,950	.19
Iceland	36,013	.44
Israel	2,830,484	.40
Japan	406	3.25
Luxembourg	39,985	.11
Mauritius	89,144	.08
Mexico	31,425,091	.11
Netherlands	253,965	.36
Switzerland	1,254	6.46
United Kingdom	7	214.29

CAULIFLOWER

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	125,670	.33
Canada	278,546	.29
Chile	40,014	.11
China Mainland	17,200	.77
Ecuador	81,350	.13
France	302,960	.28
Guatemala	2,325,328	.30
Hungary	16,898	.32
Israel	180,916	.44
Mauritius	118,961	.28
Mexico	49,761,597	.34
Monaco	8,960	.31
Netherlands	82,459	.17
Poland	67,983	.26
South Africa	304,529	.35
Spain	643,539	.20
Sweden	77,799	.07
United Kingdom	81,409	.27

CELERY

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	9,213,955	.13
Chile	116,647	.08
Costa Rica	1,543	.82
Dominican Republic	9,362	.24
Guatemala	1,929,770	.08
Hong Kong	18,900	.19
India	80,457	.17
Israel	209,593	.26
Mexico	28,232,257	.14
Monaco	1,340	4.71
Philippines	1,440	1.85

CHAYOTE

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Costa Rica	21,578,094	.18
Dominican Republic	39,805	.15
France	27,957	.11
Honduras	41,663	.08
Mexico	4,992,057	.28

CHERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Brazil	54,013	.68
Canada	633,857	.20
Chile	3,293,365	.54
Costa Rica	19,899	.30
Denmark	10,009	.48
Dominican Republic	26,936	.47
France	3,007	1.06
Greece	3,342	.32
Guatemala	3,175	.45
Hungary	48,075	.54
Italy	1,587	2.33
Mexico	38,681	.11
Netherlands	44,000	.41
New Zealand	16,807	1.31
Philippines	8,047	.37
Portugal	12,421	1.14
Spain	32,981	.45
Swaziland	38,360	.77
Switzerland	1,607	1.70
Thailand	55,179	1.70
Venezuela	15,556	.45
Yugoslavia	7,121	.51

CHESTNUTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	42,990	.20
Bolivia	4,321	.50
Canada	3,312	1.86
Chile	2,698	1.02
China Mainland	230,190	.71
China Taiwan	96,796	1.07
France	66,021	1.63
Hong Kong	30,613	1.28
Italy	7,090,883	1.16
Japan	17,554	1.12
Korea	442,376	1.33
Netherland	68,015	1.04
Portugual	127,341	.97
Spain	178,575	1.02
Switzerland	6,161	1.98
Thailand	23,252	.40
Turkey	7,745	.85

COCONUTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bolivia	34,319	1.05
Brazil	14,833	.96
Canada	193,313	.63
Chile	5,769	2.92
China Mainland	15,911	.76
China Taiwan	187,467	.41
Colombia	74,406	.10
Costa Rica	2,844,441	.29
Dominican Republic	24,642,982	.10
El Salvador	267,954	.33
France	2,452	2.46
French Polynesia	765,006	.41
Germany	289,068	.39
Guyana	26,760	.19
Haiti	3,047	.60
Honduras	408,264	.10
Hong Kong	219,848	.39
India	74,302	.35
Indonesia	237,871	.50
Israel	84,001	.08
Jamaica	64,395	.52
Japan	37,033	.38
Malaysia	980,868	.36
Mali	53,198	.41
Mexico	6,498,243	.14
Morocco	118,737	.37
Mongolia	7,848	.17
Netherlands	106,325	.36
New Guinea	45,001	.42
Peru	50,001	1.00
Philippines	75,383,383	.41
Pitcairn Island	50,001	.40
Western Samoa	44,932	.19
Senegal	23,389	.34
Sierra Leone	21,001	.37
Singapore	326,994	.38
Sri Lanka	700,724	.44
Suriname	1,213	2.31
Thailand	295,344	.58
Tonga	60,385	.13
Trinidad	38,250	.08
United Kingdom	62,748	.70
Venezuela	171,630	.27

CORN

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	154,762	.28
Australia	832,188	.41
Belgium	95,622	.24
Canada	19,021,486	.29
Chile	79,553	.24
China Mainland	50,299	.31
China Taiwan	11,330	1.02
Costa Rica	11,143	.77
Czech	77	20.48
Dominican Republic	537,752	.29
Ecuador	14,151	.16
Germany	41,888	.22
Guatemala	24,524	.76
Hungary	244,885	.32
Israel	2,421,592	.44
Jamaica	6,343	.37
Japan	798	2.20
Mauritius	77,457	.11
Mexico	11,153,093	.21
Netherlands	4,409	.98
New Zealand	405,847	.26
Peru	35,274	.57
Thailand	84,899	.82
United Kingdom	15,384	.37
Yugoslavia	712,307	.44

CRANBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	37,676,194	.24
Chile	3,155	1.70
Korea	2,255	1.42
Singapore	1,887	4.15
Sweden	9,367	1.23

CUCUMBERS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	17,895	.19
Azerbaijen	33,770	.43
Bahamas	12,122,890	.12
Belgium	14,068	.91
Belize	355,626	.17
Canada	8,139,703	.42
Chile	1,653	.83
Costa Rica	26,040	.10
Dominican Republic	80,772	.10
Ecuador	15,840	.31
El Salvador	68,667	.07
Greece	6,945	.32
Guatemala	1,055,447	.07
Honduras	20,334,247	.09
Italy	3,426	.55
Jamaica	102,327	.79
Japan	507	4.20
Korea	2,250	4.07
Lebanon	2,582	.51
Mauritius	10,318	.32
Mexico	395,129,957	.19
Mozambique	56,438	.02
Netherlands	544,174	.63
New Zealand	24,295	.93
Spain	201,464	.39
Sri Lanka	83,864	.19
Sweden	3,803	.57

DATES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	327,593	.54
China Mainland	2,722,321	.48
China Taiwan	19,842	1.21
Colombia	2,976	.81
Costa Rica	47,840	.21
Egypt	27,760	.54
French Polynesia	2,249	.80
Guatemala	10,739	.46
Haiti	83,112	.63
Hong Kong	139,213	.63
India	5,196	.47
Iraq	2,146,142	.53
Israel	435,482	.87
Italy	595	3.54
Japan	3,528	.85
Jordan	81,462	.37
Korea	421	3.10
Lebanon	2,685	1.34
Macao	45,442	.94
Malaysia	141,887	1.27
Mexico	283,021	.69
Pakistan	10,039,791	.42
Saudi Arabia	17,929	.87
Singapore	152,929	.70
Spain	1,613	2.76
Sweden	19,731	.25
Thailand	2,811	2.99
Tunisia	279,736	.48
Turkey	4,625	.69
United Arab Emerates	64,706	.33
United Kingdom	705,229	.53

DILL

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	15,562	.18
Bahamas	928	1.64
Canada	6,402	.47
China Mainland	1,016	2.99
China Taiwan	2,401	1.72
Egypt	111,509	.97
France	13,289	2.17
Germany	5,788	1.20
Hungary	7,090	1.44
India	1,063,790	.31
Israel	1,958	3.03
Japan	751	8.83
Mexico	17,334	.55
Morocco	44,092	.25
Netherlands	21,846	.34
Pakistan	139,356	.28
Peru	146	10.31
Sweden	71,920	1.24
Tokelau Islands	22,046	1.54
Turkey	45,338	.88
United Kingdom	90	14.95

EGGPLANT

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	7,280	.71
Costa Rica	82,067	.18
Cyprus	1,931	.80
Dominican Republic	91,695	.15
Ecuador	2,260	1.06
Ghana	7,490	.49
Guyana	694	5.44
Haiti	38,980	.23
Honduras	263,730	.15
Israel	1,770	.85
Jamaica	79,959	.17
Lebanon	8,459	.91
Mexico	38,638,869	.33
Mauritius	9,744	.39
Netherlands	1,047	1.96
Russia	5,412	.48
Thailand	3,600	.64
Turkey	5,086	1.06

FIGS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	1,834	2.58
Brazil	46,200	1.09
Canada	9,743	.50
Colombia	12,360	.79
France	14,343	1.43
Germany	21,587	1.13
Greece	2,536,536	1.03
Hungary	15,873	.22
Israel	893	1.75
Italy	153,157	.54
Mexico	1,064,033	.23
Pakistan	6,319	1.15
Portugal	22,360	1.03
Singapore	841	2.46
Spain	3,920,957	.69
Syria	1,133	1.13
Thailand	17,637	.98
Tokelau Islands	4,317	.53
Turkey	5,546,499	.50
United Arab Emerates	5,291	.52
United Kingdom	42,000	.60

GARBANZO BEANS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	1,217,680	.22
Belgium	113,561	.26
Canada	65,900	.30
Chile	43,872	.30
Cyprus	4,799	.27
Dominican Republic	58,863	.44
Ecuador	36,967	.55
France	33,411	.69
Germany	58,698	.51
India	861,798	.29
Ireland	19,714	.56
Italy	1,124	1.63
Jordan	3,737	.37
Kenya	47,460	.28
Kuwait	7,842	.31
Lebanon	19,013	.61
Malawi	611,144	.31
Mexico	22,725,501	.30
Netherlands	40,118	.43
Peru	33,400	.29
Philippines	1,726	1.48
Singapore	3,715	1.49
Spain	88,185	.67
Switzerland	43,987	.38
Syria	7,606	.45
Thailand	93,951	.09
Tokelau Islands	33,316	.45
Trinidad	1,717	2.08
Turkey	3,582,542	.47
United Kingdom	38,325	.37

GARLIC

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Antigua	37,479	.95
Argentina	6,467,686	.57
Australia	83,601	.32
Bolivia	22,046	.25
Brazil	14,611	.54
Canada	68,746	.44
Chile	2,273,768	.75
China Mainland	14,376,342	.24
China Taiwan	2,827,928	.32
Colombia	20,988	.17
Egypt	42,990	.21
El Salvador	21,524	.49
France	21,874	.44
Guatemala	370,369	.35
India	52,929	.45
Indonesia	43,001	.66
Japan	17,832	.64
Korea	9,007	1.36
Mexico	21,203,117	.43
Montserrat	40,386	.41
Monzambique	41,482	.42
Netherlands	7,796	.37
Norway	2,829	.95
Peru	142,881	.51
Singapore	28,497	.31
Spain	812,407	.90
Switzerland	69,145	.54
United Kingdom	615	4.56
Uruguay	68,648	.35
Venezuela	40,786	.47

GRAPEFRUITS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	30,512	.41
Bahamas	16,133,463	.04
Canada	54,739	.84
China Mainland	3,968	.89
Dominican Republic	998,088	.17
Israel	588,791	.33
Jamaica	170,723	.08
Mexico	464,449	.42

GREEN BEANS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	104,501	.37
Canada	412,009	.43
China Mainland	47,247	.35
China Taiwan	10,000	.85
France	28,330	.71
Guatemala	27,165	.47
Hungary	109,507	.27
Mexico	324,464	.51
Peru	117,439	.47
Poland	35,649	.26

JICAMA AND PUMPKINS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bahamas	11,737	.37
Barbados	22,668	.81
Canada	6,324	.29
Costa Rica	6,241,068	.11
Dominican Republic	6,426,690	.13
Greece	43,290	.07
Grenada	11,353	.42
Haiti	472,963	.15
Honduras	393,574	.10
Italy	64,709	.09
Jamaica	749,690	.24
Mexico	25,552,423	.23
Monaco	29,538	.35
Mongolia	19,692	.16
Montserrat	8,730	.14
Mozambique	20,371	.13
Nicaragua	95,584	.08
Panama	1,358,772	.10
St. Lucia	34,399	.33
St. Vincent	44,621	.37
Spain	18,999	.08
Trinidad	308,966	.16

KIWI

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	1,102	2.68
Chile	16,103,039	.31
Italy	888,259	.54
New Zealand	39,383,744	.58

KOHLRABI

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	1,839	2.00
Canada	3,278,805	.05
China Mainland	71,906	.29
Costa Rica	35,311	.53
Dominican Republic	12,500	.13
Italy	14,844	1.43
Jamaica	30,001	.15
Japan	2,205	1.42
Korea	406	2.84
Mauritius	25,097	.05
Mexico	11,113,321	.25
Monaco	7,998	.22
Netherlands	992	1.36

LEEKS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	6,891	.39
Chile	2,200	.93
China Mainland	20,767	.40
China Taiwan	4,043	.57
Costa Rica	15,737	.30
Dominican Republic	3,512	.71
Guatemala	1,544,177	.13
Honduras	5,686	.72
Hungary	2,595	.79
Jamaica	1,290	6.12
Mexico	1,817,415	.23
New Zealand	3,838	1.53
Thailand	44,092	.54

LEMONS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	403,816	.41
Bahamas	10,749,701	.03
Chile	3,642,735	.22
China Mainland	3,998	1.35
China Taiwan	7,251	.87
Colombia	3,307	1.13
Costa Rica	22,625	.38
Cyprus	11,211	.75
Dominican Republic	88,619	.14
Ecuador	42,881	.24
Germany	91,354	.30
Greece	72,845	.18
Guatemala	21,808	.82
Honduras	34,000	.12
Hong Kong	2,678	1.59
India	13,404	.65
Israel	10,474	.91
Italy	72,356	.39
Japan	1,124	1.33
Malaysia	7,038	.82
Mexico	551,663	.14
Oman	28,940	.72
Pakistan	3,307	1.25
Singapore	11,343	1.66
Spain	3,837,378	.18
Thailand	26,753	.48
Turkey	666,710	.19
United Arab Emerates	5,490	.70
Venezuela	40,737	.34

LETTUCES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	13,720	1.24
Canada	2,182,985	.21
Chile	22,896	.92
China Taiwan	3,519	1.39
Costa Rica	556	1.81
Germany	2,879	.78
Guatemala	14,661	.08
Italy	9,703	2.46
Mexico	8,674,889	.16
Netherlands	3,403	1.37
Peru	653,618	.28

LIMA BEANS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	258,055	.42
Chile	91,315	.37
China Taiwan	7,926	.63
Guatemala	29,602	.66
Hungary	16,136	.28
Japan	342	4.62
Mexico	49,556	.44
Peru	74,916	.26
Philippines	1,003	1.85
Portugual	8,030	.71

LIMES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bahamas	3,568,382	.07
Belize	117,738	.21
Chile	35,995	.21
Colombia	608,461	.16
Costa Rica	276,585	.22
Dominican Republic	40,396	.13
Ecuador	1,016,426	.12
El Salvador	420,243	.38
Guatemala	262,832	.10
Haiti	134,949	.33
Honduras	1,020,809	.11
Malaysia	3,126	2.47
Mexico	152,212,041	.10
Monaco	49,800	.92
Nicaragua	521,512	.22
Oman	17,637	.35
Singapore	4,169	2.16
Turkey	558	2.52
Vatican City	25,600	.63
Venezuela	679,351	.28

MANGOES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Brazil	2,495,063	.67
Chile	15,723	.96
China Mainland	11,039	.70
China Taiwan	23,223	.65
Colombia	30,815	.64
Costa Rica	56,266	.43
Dominican Republic	178,541	.41
Ecuador	250,331	.13
El Salvador	2,088	1.17
France	3,847	1.61
Grenada	165,636	.49
Guatemala	699,328	.22
Haiti	9,332,802	.28
Honduras	7,624	.25
India	76,456	.51
Jamaica	4,105	.53
Mexico	52,840,067	.39
Peru	6,059,815	.04
Philippines	30,983	1.05
Singapore	5,769	1.54
Thailand	2,865	2.31
Trinidad	2,006	1.66
Venezuela	2,112,635	.43

MUSHROOMS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Austria	5,501	2.54
Belgium	692	2.51
Canada	3,150,022	.81
Chile	33,078	.62
China Mainland	1,011,867	.81
China Taiwan	87,718	1.27
France	132,922	2.32
Germany	19,647	2.02
Guatemala	243	7.16
Hong Kong	81,168	1.06
Hungary	1,164	2.00
Indonesia	27,074	1.33
Italy	100,839	1.57
Japan	68,036	2.15
Korea	31,635	1.22
Malaysia	31,242	.85
Mexico	3,487	5.16
Morocco	838	7.65
Netherlands	5,057	3.10
New Zealand	17,488	2.64
Poland	22,443	.82
Portugal	2,471	5.00
Singapore	13,704	2.34
Spain	158,037	1.29
Sri Lanka	1,080	1.26
Switzerland	3,517	5.52
Thailand	16,564	.91
Turkey	43,906	2.17
Yugoslavia	450	4.54

OKRA

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	45,217	.26
Chile	20	87.14
Costa Rica	12,520	.22
Dominican Republic	266,210	.29
Egypt	31,512	.79
El Salvador	3,520,767	.30
Guatemala	7,693,490	.23
Honduras	7,867	.34
Jamaica	31,967	.21
Mexico	33,588,480	.14
Philippines	1,649	1.07

ONION AND SHALLOTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	90,279	.10
Australia	784,948	.17
Belgium	594,691	.45
Brazil	345,308	.14
Canada	44,426,940	.14
Chile	8,954,549	.11
China Mainland	34,340	.33
China Taiwan	362,092	.31
Christmas Island	17,873	.33
Costa Rica	530,474	.13
Dominican Republic	46	103.03
El Salvador	70,400	.12
France	5,599,656	.51
Guatemala	2,294,308	.09
Haiti	10,999	.18
Honduras	155,977	.09
Hong Kong	8,446	.41
Israel	28,472	.51
Italy	34,053	.84
Japan	2,205	1.41
Korea	1,587	2.01
Luxembourg	14,758	.25
Malaysia	30,818	.27
Mauritius	316,655	.38
Mexico	360,485,892	.22
Monaco	30,923	.44
Montserrat	38,691	.06
Morocco	135,855	.59
Mozambique	30,508	.35
Netherlands	2,307,089	.36
New Zealand	2,508,642	.18
Nicaragua	653,516	.10
Niger	51,250	.16
Panama	310,541	.15
Philippines	477,155	.28
Spain	258,492	.17
Thailand	324,664	.78
United Kingdom	15,966	.68
Uruguay	125,979	.12
Venezuela	104,887	.20

ORANGES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	13,007	.41
Australia	3,125,651	.48
Bahamas	169,392	.04
Brazil	13,801	.65
Canada	58,798	.78
Colombia	50,876	.35
Dominican Republic	7,531,714	.13
Egypt	565,254	.33
Germany	1,433	7.49
Israel	3,994,584	.29
Italy	363,441	.67
Jamaica	2,146;184	.13
Japan	937	6.19
Macao	579,706	.22
Mexico	15,144,984	.26
Morocco	21,791,654	.30
Netherlands	5,040	.50
Singapore	412	4.80
Spain	5,999,308	.37
United Arab Emerates	243	18.56

PAPAYAS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Antigua	3,175	1.13
Bahamas	2,406,23	.36
Belgium	6,746	.25
Belize	1,356,002	.27
Brazil	7,262	.67
Colombia	26,037	.46
Costa Rica	342,635	.30
Dominican Republic	969,342	.25
Ecuador	3,836	.55
Germany	3,999	.47
Guatemala	3,246	1.11
Haiti	132,409	.29
Jamaica	1,549,067	.54
Mexico	12,036,414	.22
Peru	10,009	.31
Spain	32,595	.43
Thailand	225,230	.17
Trinidad	686	2.62

PEACHES AND NECTARINES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	27,937	.68
Canada	2,109,699	.32
Chile	103,851,283	.29
China Taiwan	1,190	3.27
Colombia	5,302	.35
Greece	191,551	.21
Kyrgyzstan	49,242	.27
Mexico	359,423	.65
New Zealand	135,960	.89
Peru	3,419	1.11
Singapore	4,725	.90
Spain	164,619	.57
St. Lucia	86,287	.24
Switzerland	35,283	.32

PEARS AND QUINCES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	28,619,850	.25
Australia	4,420,555	.46
Canada	858,212	.22
Chile	66,640,528	.15
Grenada	5,763	.23
Hungary	41,667	.20
Italy	109,802	.25
Japan	2,868,302	1.23
Korea	2,167,970	.97
Mexico	8,318	.32
New Zealand	3,007,689	.63
St. Lucia	366,402	.14
South Africa	2,805,603	.35

PEAS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	165,347	.44
Australia	47,399	.22
Belgium	381,218	.38
Canada	21,646,840	.32
Chile	42,507	.63
China Mainland	5,465,408	.71
China Taiwan	1,541,938	.99
Colombia	5,091	.85
Costa Rica	27,896	.84
Denmark	244,046	.77
Dominican Republic	255,888	.45
Ecuador	142,006	.52
Egypt	3,188	.45
El Salvador	150,166	.44
Fiji	4,233	.95
France	121,878	.78
Germany	179,604	.50
Guatemala	22,516,842	.37
Guyana	26,054	.30
Honduras	74,175	.36
Hong Kong	162,094	.82
Hungary	926,217	.32
Iceland	44,902	.48
India	17,637	.35
Ireland	563,976	.41
Italy	428,150	.42
Japan	51,933	.82
Kiribati	13,456	.37
Malaysia	70,257	.53
Mauritius	3,651	1.32
Mexico	7,877,455	1.00
Monaco	6,312	.88
Netherlands	12,877	1.22
New Zealand	2,362,194	.40
Panama	42,000	.30
Peru	30,171	.38
Philippines	6,255	.43
Poland	978,720	.20
Portugal	4,409	.46
Spain	2,044,426	.34
Sweden	928,968	.36
Thailand	1,273,808	.27
Turkey	36,927	.40
United Kingdom	3,958,797	.39
Venezuela	10,390	.63
Yugoslavia	2,209,065	.40

PECANS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	1,652,034	1.97
Canada	20,373	3.92
China Mainland	33,069	2.11
Israel	1,819	5.66
Mexico	28,024,978	1.50
Peru	34,172	.80
South Africa	215,877	2.06

PEPPERS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	728	2.11
Bahamas	142,132	.15
Barbados	2,209	1.06
Belgium	997	2.34
Canada	24,142	.70
China Mainland	297,593	.68
China Taiwan	16,799	1.68
Costa Rica	19,224	.27
Dominican Republic	163,689	.23
France	3,968	1.13
Ghana	10,582	.64
Grenada	1,681	.80
Hong Kong	2,701	1.13
India	191,578	.48
Italy	761	2.39
Jamaica	66,758	.93
Mexico	75,246,959	.50
Montserrat	3,351	.76
Netherlands	1,293,256	1.14
New Zealand	1,830	1.15
Norway	2,006	2.44
Pakistan	122,919	.50
St. Vincent	17,939	.91
Thailand	78,719	.85
Trinidad	9,972	1.67

PINEAPPLES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	1,204	2.27
Belize	2,230	2.05
Brunei	54,432	.12
Canada	96,122	.92
Chile	2,646	1.53
China Mainland	40,727	.85
China Taiwan	75,461	1.24
Colombia	478,809	.21
Costa Rica	129,061,434	.22
Dominican Republic	61,429,048	.10
French Polynesia	59,324	.59
Germany	985	7.04
Ghana	37,964	.20
Guatemala	390,446	.37
Haiti	3,549	.30
Honduras	49,514,477	.14
Hong Kong	401,176	.15
Indonesia	300,907	.25
Ivory Coast	50,775	.44
Kenya	165	10.51
Malaysia	23,854	.28
Mexico	11,995,476	.10
Panama	57,486	.15
Peru	25,474	.31
Philippines	318,963	.31
Singapore	91,750	.30
Spain	165,872	.17
Thailand	4,568,711	.60
Tunisia	22,046	1.01
Venezuela	10,115	.21

PISTACHIOS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Afganistan	35,204	3.85
Belgium	22,046	2.63
Canada	3,546	.61
China Mainland	108,259	1.25
China Taiwan	40,724	.77
France	933	5.35
Germany	36,287	1.67
Greece	661	2.68
Hong Kong	429,699	.91
Israel	88,130	1.77
Italy	827	10.34
Korea	44,092	1.29
Lebanon	4,339	.97
Mexico	86,206	1.17
Pakistan	16,542	2.86
Singapore	2.77	6.49
Switzerland	551	11.43
Turkey	530,533	1.99

PLAINTAINS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	46,077	.04
Chile	57,161	.14
China Mainland	83,687	.11
Colombia	166,918,077	.16
Costa Rica	7,348,734	.16
Dominican Republic	2,985,975	.18
Ecuador	109,876,939	.09
El Salvador	36,969	.09
Grenada	430	3.95
Guatemala	2,368,704	.10
Honduras	5,693,485	.12
Jamaica	1,202	2.72
Japan	1,552,478	.13
Mexico	278,587	.13
Nicaragua	41,965	.22
Panama	912,357	.13
Vatican City	78,335	.04
Venezuela	37,416,450	.17

PLUMS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bulgaria	9,314	.50
Canada	26,266	.41
Chile	50,552,181	.29
China Taiwan	2,043	2.65
France	619,794	.24
Germany	8,709	.71
Grenada	46,479	.44
Hong Kong	27,209	.38
Hungary	13,054	.58
Israel	46,341	.48
Japan	5,750	1.11
Kyrgyzstan	15,556	.27
Macao	750	1.95
Malaysia	22,201	.87
New Zealand	6,842	.72
Pakistan	42,538	.53
St. Lucia	35,303	.27
Switzerland	34,392	.29
Thailand	9,017	.35
Turkey	5,644	1.61
United Arab Emerates	21,070	.55

POTATOES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	1,543	.88
Belize	43,751	.15
Brazil	18,889	.32
Canada	448,584,464	.09
China Mainland	52,992	.15
China Taiwan	1,975	.61
Colombia	21,100	.61
Costa Rica	55,453	.30
Dominican Republic	549,776	.09
Egypt	6,614	.33
France	12,814	.58
Germany	880	3.48
Hungary	18,234	.30
Jamaica	77,721	.45
Japan	7,869	1.78
Mexico	112,531	.44
Netherlands	112,986	.64
Peru	20,283	.52
Switzerland	271	6.21
United Kingdom	8,344	.40

RADISHES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	1,230,351	.14
China Mainland	12,869	.45
China Taiwan	33,620	1.13
Germany	3,182	1.07
Hong Kong	2,500	.54
Italy	787	2.00
Japan	6,041	1.10
Korea	4,898	1.95
Mauritius	10,523	.28
Monaco	36,160	.21

RASPBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Australia	919	3.29
Belgium	30,863	.62
Bosnia	279,728	.49
Canada	14,288,099	.61
Chile	5,206,324	.80
Colombia	19,933	4.04
Costa Rica	2,672	1.67
Cyprus	44,114	.45
Denmark	38,180	.65
Ecuador	27,251	.26
France	77,418	1.84
Germany	83,776	.48
Guatemala	24,431	.63
Hungary	55,305	.92
Macedonia	735,206	.47
Mexico	100,014	.70
Netherlands	4,302	1.93
New Zealand	20,894	1.34
Panama	4,601	1.95
Poland	96,393	.54
Spain	6,945	1.13
Switzerland	3,074	1.48
Yugoslavia	1,799,573	.66

SPINACH

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	101,115	.28
Belgium	97,253	.27
Canada	89,372	.32
Egypt	2,200	1.44
France	27,933	.24
Jamaica	8,120	1.05
Mexico	4,593,130	.24
Netherlands	40,242	.29
Uruguay	273,157	.30

SQUASH

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bahamas	41,522	.12
Belize	28,468	.13
Brazil	25,000	.30
Canada	395,549	.21
China Mainland	3,501	.72
Costa Rica	1,932,437	.15
Dominican Republic	133,934	.13
El Salvador	72,462	.22
Guatemala	53,358	.70
Honduras	3,954,925	.09
Jamaica	926,973	.27
Mauritius	23,916	.31
Mexico	176,169,818	.29
Monaco	30,554	.29
Mozambique	20,926	.34
Netherlands	11,023	.93
New Zealand	298,001	.21
Nicaragua	436,053	.09
Panama	1,093,432	.10
Trinidad	290,600	.15

STRAWBERRIES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Andorra	45,001	.43
Argentina	97,358	.42
Australia	62,489	1.52
Canada	650,179	.52
Chile	284,518	.48
Colombia	1,204,907	1.28
Costa Rica	760,447	.79
Dominican Republic	72,017	.14
Ecuador	1,646,766	.37
El Salvador	4,901	.71
Fiji	1,819	.81
France	9,307	2.17
Germany	42,858	.52
Guatemala	4,995,995	.33
Honduras	229,175	.26
Hungary	33,964	.49
Italy	397	3.70
Japan	60,002	.35
Malaysia	3,598	2.51
Israel	3,082	.45
Mexico	78,328,443	.42
Monaco	45,001	.36
Netherlands	130,409	.50
Philippines	5,638	.57
Poland	3,215,872	.47
Kiribati	7,937	.45
Spain	19,181	.69
New Zealand	724,759	1.37
Sweden	419	9.91
Venezuela	1,340,389	.63
Yugoslavia	621,799	.52

SWEET POTATOES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	5,750	.32
Brazil	45,680	.42
Canada	49,999	.11
China Mainland	36,718	.62
China Taiwan	4,260	.83
Colombia	11,073	.48
Costa Rica	74,976	.25
Dominican Republic	17,835,373	.10
Hong Kong	5,805	.75
Jamaica	17,811	.77
Japan	17,811	.55
Korea	5,882	1.50
Philippines	5,772	.63
Peru	2,646	.73
Singapore	4,826	.65
Uruguay	2,381	.68

TANGERINES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Costa Rica	41,566	.37
Dominican Republic	58,007	.18
Hong Kong	4,341	2.07
Jamaica	104,736	.31
Japan	1,361,434	.32
Mexico	19,740,821	.17
Morocco	7,431,807	.45
Spain	2,825,101	.59

THYME

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Bahamas	362	4.11
Canada	2,143	3.45
Denmark	441	18.90
France	4,835	2.05
Germany	551	14.54
Greece	5,368	.27
Israel	399	3.60
Jamaica	24,853	2.02
Jordan	25,523	.42
Lebanon	15,028	.65
Morocco	21,652	.39
Spain	20,330	.91
Syria	17,493	.66
Trinidad	1,299	253
United Arab Emerates	2,077	2.02

TOMATOES

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Argentina	166,101	.28
Bahamas	2,280,589	.11
Belgium	1,683,638	.79
Brazil	4,740	.76
Canada	8,189,828	.57
Chile	30,085	.26
Colombia	16,157	.69
Costa Rica	190,224	.25
Dominican Republic	1,833,788	.18
Ecuador	74,940	.34
France	27,582	.96
Germany	7,711	.46
Guatemala	88,696	.25
Honduras	532,505	.07
Hungary	40,124	.14
Israel	3,777,035	.20
Italy	42,439	.35
Japan	1,005	4.61
Mauritius	6,173	.77
Mexico	739,839,856	.35
Monaco	106,838	.24
Montserrat	41,156	.13
Morocco	39,630	.54
Mozambique	38,673	.09
Netherlands	7,077,495	.67
New Zealand	5,109	1.03
Niger	1,543	2.28
Norway	6,482	.70
Somalia	15,986	.19
Spain	18,213	.72
Switzerland	22,715	.70
Venezuela	315,291	.34

TURNIPS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Canada	2,562,729	.10
China Mainland	14,067	.43
China Taiwan	1,874	1.60
Fiji	8,609	.50
France	4,057	.42
Hong Kong	420,682	.16
Japan	921	2.97
Mexico	128,492	.17

WALNUTS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Belgium	85,680	.84
Cameroon	23,263	.52
Canada	15,421	.1.44
Chile	136,164	.57
China Mainland	1,604,080	1.46
France	8,179	2.12
Germany	90,178	.33
Hong Kong	329,488	1.34
India	1,104,465	1.50
Italy	187	7.51
Kyrgyzstan	33,290	.75
Pakistan	78,426	1.49
Russia	36,156	.36
Switzerland	17,637	.58
Turkey	38,901	1.43
United Kingdom	11,603	1.69

WATERMELONS

AVAILABLE COUNTRIES	POUNDS PER YEAR	DOLLARS PER POUND
Antigua	172,077	.68
Bahamas	519,763	.04
Brazil	43,109	.06
Chile	32,666	.12
Costa Rica	4,263,892	.14
Dominican Republic	777,115	.06
El Salvador	1,018,101	.07
Greece	51,006	.03
Guatemala	1,250,471	.05
Heard Island	87,303	.02
Honduras	7,712,156	.07
Korea	224,195	.21
Mexico	230,327,776	.08
Monaco	64,583	.11
Morocco	30,865	.10
Mozambique	148,029	.04
Nicaragua	136,237	.21
Panama	3,444,117	.13

APPENDIX I. CUBIC FEET PER POUND BY ITEM NUMBER

14009	0.38
14145	0.15
14262	0.045
14305	0.0722
14330	0.0575
14340	0.075
14359	0.062
14370	0.0333
14390	0.0433
14565	0.134
14570	0.0371
14605	0.025
14620	0.062
14626	0.052
14650	0.065
14830	0.062
14892	0.052
14899	0.065
14938	0.0556
14970	0.052
14977	0.0456
16007	0.1
16015	0.08
16041	0.1
16055	0.11
16074	0.0909
16077	0.0629
16130	0.113
16140	0.0667
16175	0.05
16184	0.1
16202	0.025
16225	0.065
16235	0.092
16264	0.1
16270	0.05
16280	0.1
16287	0.0833
16362	0.22
16380	0.0056
16385	0.1
16470	0.0033
16492	0.01
16510	0.04
16523	0.036
16525	0.0306
16611	0.0909
16620	0.04
16700	0.1775

16720	0.0333
16813	0.1
19621	0.03
19628	0.03
19701	0.0417
19710	0.02
19745	0.0417
19750	0.0417

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